HOP BROOK LAKE, HANCOCK BROOK LAKE &
STAMFORD HURRICANE BARRIER
MIDDLEBURY, CONNECTICUT

ENVIRONMENTAL COMPLIANCE ASSESSMENT:

HOP BROOK LAKE, HANCOCK BROOK LAKE &
STAMFORD HURRICANE BARRIER
MIDDLEBURY, CONNECTICUT

PRELIMINARY FINDINGS REPORT U.S. Army Corps of Engineers New England Division 424 Trapelo Road Waltham, Massachusetts 02254-9149

September 1994



For Inter Corps Office Distribution Only

MEMORANDUM THRU Chief, NRM Branch

FOR Director of Operations

SUBJECT: Environmental Compliance Assessment for Hopbrook Lake, Hancock Brook Lake, and Stamford Hurricane Barrier

- 1. Attached please find the Environmental Compliance Assessment for Hopbrook Lake, Hancock Brook Lake, and the Stamford Hurricane Barrier. Assessment was prepared by the NED ERGO Team: Bruce Williams and Jim Law (NED-OD-P); Mike Penko and Mark Paiva (NED-PL); Townsend Barker (NED-ED-WQ); Jim Peck (NED-SO); and Anne Laster (NED-RE).
- 2. Upon approval of the assessment, the Project Manager will be tasked with development of a corrective action plan to schedule and prioritize resources to address findings identified in this assessment. In order that resources are dedicated to correct these problems, recommend that remediation which can be performed as routine maintenance work be completed within the next 3 years; other work should be programmed for completion within 5 years.
- 3. I recommend your approval for implementation.

Atch

Bruce Williams
Environmental Compliance
Coordinator

CMT 2

1. The Environmental Compliance Assessment for Hopbrook Lake, Hancock Brook Lake, and the Stamford Hurricane Barrier is:

Approved ______ Disapproved _____ for implementation.

Atch

J. C. WONG Director of Operations

EXECUTIVE SUMMARY

An environmental compliance assessment of Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier was conducted by an interdisciplinary team of New England Division environmental professionals on April 22, 1994.

The assessment was conducted as part of the U.S. Army Corps of Engineers Environmental Review Guide for Operations (ERGO) program. The ERGO program establishes the use of environmental compliance assessments to ensure compliance with all applicable Federal, state, local, Department of Defense (DoD), and U.S. Army laws and regulations. An overall ERGO compliance assessment considers 13 major environmental compliance categories.

Overall the projects were well maintained as demonstrated by the lack of serious environmental deficiencies. The findings at Hop Brook Lake (HO), Hancock Brook Lake (HA) and Stamford Hurricane Barrier (ST) are as follows:

Significant Deficiencies - None

Problems that pose a direct & immediate threat to human health, safety or to the environment.

Major Deficiencies - Three (3)

Problems that require action and pose a threat to human health, safety or to the environment.

Minor Deficiencies - Twenty (20)

Deficiencies that are mostly administrative in nature. These problems require monitoring or planning for future mitigation.

Management Practices - Five (4)

Items noted are not specifically covered by laws or regulations; however, they still require management attention.

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THE ERGO PROGRAM

The U.S. Army Corps of Engineers initiated the ERGO program as a comprehensive self-evaluation and program management system for achieving, maintaining, and monitoring compliance with environmental laws and regulations at Corps of Engineers projects and facilities. Objectives of the ERGO program are to:

- 1) Enhance Corps of Engineers environmental compliance at federal, state, and local levels.
- 2) Improve Corps of Engineers environmental management.
- 3) Build supporting financial programs and budgets.
- 4) Assure supervisors their environmental programs are being implemented effectively in accordance with Corps of Engineer goals and objectives.

Periodic internal environmental compliance assessments have been deemed necessary. These evaluations are designed to assess environmental compliance and to provide necessary feedback to supervisors for organizing, directing, and controlling environmental compliance and protection activities.

The ERGO program began with the creation of a steering committee. Arrangements were made with the U.S Army Construction Engineering Research Laboratory (USACERL) to compile all relevant federal, Department of Defense, Army, Corps of Engineer and state and local laws and regulations to produce the draft manual.

The ERGO manual of environmental compliance assessments was pilot tested at various facilities in the Nashville District in May 1990. The program was field tested at several projects during FY 1991 and the manual was distributed as a final draft. In January 1991, the Chief, Operations, Construction and Readiness Division (USACE), directed division and district operations offices to formally designate Environmental Compliance Coordinators (ECC's). Because it is responsible for the majority of USACE facilities, Operations Directorate was tasked with the development and maintenance of the ERGO program.

New England Division's ERGO program became operational in August 1991. An ERGO review team was established by the ECC in October 1991. The ERGO program manager scheduled 18 projects, including Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier, for completion of environmental compliance assessments in FY-94.

ASSESSMENT PROCEDURES

The ERGO assessment of Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier was conducted by a 6 person team comprised of NED personnel. The team followed a three phase approach. The first phase was to obtain pre-assessment information (see Appendix A) from the site concerning on-site activities and review applicable state and local environmental regulations.

The second phase involved the on-site portion of the assessment. This involved a briefing of project and basin staff, followed by a facility tour to obtain a general overview of facility operations. Typically, the team member would interview project staff responsible for a particular functional area, visually inspect the project/facility, and verify that required written documentation was in place. When possible, all deficiencies were reported to facility personnel. The team concluded the on-site portion of the assessment by briefing the project manager and staff to apprise them of the review team's findings.

The third phase involves developing the draft report and developing an action plan for addressing outstanding deficiencies. The assessment of Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier followed the above procedures and covered the elements set forth in the 13 ERGO compliance protocols.

The assessment was conducted in accordance with the best professional judgement of the ERGO team members. It should be understood that the assessment consisted of reported and sample observations taken over a short span of time relative to the period under review. Efforts were directed toward reviewing major facets of environmental performance in the period covered, and therefore, it is important to recognize that this assessment may not necessarily identify all potential problems.

Successful completion of the site-specific environmental assessment of Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier was reliant on complete foreclosure of all information regarding the operation and maintenance activities at the project.

It should be noted that failure of a Project Manager to provide complete or adequate information to the review team does not relieve the manager of the responsibility for compliance with environmental regulations.

ERGO PROGRAM OBJECTIVES

The ERGO manual serves as the primary tool for conducting environmental compliance assessments of Corps of Engineer projects and facilities. The objectives of the program are to:

- 1) Compile applicable Federal laws and regulations associated with Corps of Engineers operations and activities.
- 2) Synthesize environmental regulations, good management practices, and risk management issues into consistent and easy to use checklists.
- 3) Serve as a reference document for daily operations.
- 4) Serve as a standard for evaluation of environmental compliance.

DESCRIPTION OF REGULATORY COMPLIANCE

This section of the report presents a summary of findings in those categories that are governed by engineering regulations, engineering manuals, federal regulations, and state regulations. Non-regulatory items, which are referred to in this report as a management practices, are of a lower priority but require attention to correct. Deficiencies noted in this evaluation will include the following information:

SIGNIFICANT DEFICIENCY (SIG.):

A problem categorized as significant requires immediate attention. It poses, or has high likelihood of posing, a direct and immediate threat to human health, safety, the environment, or the installation mission.

MAJOR DEFICIENCY (MAJ.):

A problem categorized as major requires action, but not necessarily immediate attention. It has the potential to result in a notice of violation from regulatory agencies. A major deficiency may pose a threat to human health, safety or the environment.

MINOR DEFICIENCY (MIN.):

A minor deficiency is mostly administrative in nature, even though it might result in a notice of violation. It may also be a temporary or occasional instance of noncompliance.

MANAGEMENT PRACTICE (MGT.):

A management practice is not considered a deficiency because it is not based on a specific regulatory requirement. Although items noted may not be specifically covered by regulation, and are not assigned severity ratings, they still require management attention.

Summary of Deficiencies for Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier

COMPLIANCE CATEGORY	SIG.	MAJ.	MIN.	MGT.
Air Emissions				
Cultural and Historic Resources Management			1	
Hazardous Material Management		1	2	1
Hazardous Waste Management			1	
Natural Resources Management			4	3
Pesticide Management			1	
Petroleum Oil and Lubricant (POL) Management				
Solid Waste Management		2	2	
Special Pollutants Management (Radon, Asbestos, PCB's, Noise)		-	2	
Underground Storage Tanks (UST) Management				
Wastewater Management			1	
Water Quality Management		•	6	
Floating Plant Management				
Totals		3	20	4

AIR EMISSIONS MANAGEMENT

NDING:

There were no air emissions management findings at Hop Brook Lake, Hancock Brook Lake or at the Stamford Hurricane Barrier

CULTURAL AND HISTORIC RESOURCES MANAGEMENT

NDING:

Minor Deficiency (HO) (HA)

CONDITION:

Hancock Brook Lake lacks a cultural resources inventory.

Historic sites identified in the survey at Hop Brook Lake require further

evaluation.

CRITERIA:

Corps facilities are required to locate, inventory, and nominate all properties

that appear to qualify for listing on the National Register of Historic Places

(16 USC 470, 36 CFR 800, ER 1130-2-438).

EFFECT:

Project is not in compliance with Section 106 of the National Historic

Preservation Act. Cultural resources may be at risk.

SOLUTION:

Project Manager should coordinate with the NED Archaeologist to conduct a

cultural reconnaissance survey of Hancock Brook Lake for historic and prehistoric resources. Additional studies at Hop Brook Lake are needed to

determine the significance of these historic sites.

HAZARDOUS MATERIAL MANAGEMENT

NDING:

A current file of applicable Federal, Corps, and state/local hazardous material regulations, directives and guidance documents has been furnished to the Project Manager. The following documents shall be maintained and updated: 29 CFR 1910, Occupational Safety and Health Standards, 40 CFR 302, Reportable Quantities of Hazardous Materials (Table 302.4) 49 CFR 172, 173, 178 and 179, Research and Special Programs

Administration, NFPA, Fire Protection Guide for Hazardous Materials

ER 500-1-1, Natural Disaster Procedures Ch.1.

COMMENT:

Knowledge of regulations required to assure safe and environmentally compatible handling of hazardous materials.

FINDING:

Major Deficiency (HO) (HA) (ST)

CONDITION:

Facility does not have a written Oil and Hazardous Substance Contingency

Plan for spill events.

CRITERIA:

The Contingency Plans should contain the following: hazardous substance storage area, designated individual to initiate spill response, periodic drills, schedule emergency equipment list, emergency medical procedures, key phone numbers, decontamination procedures (ER 1130-2-434).

SOLUTION:

Oil and Hazardous Substance Contingency Plans are being developed for all projects. They will be included in the Federal Response Plan and the Flood Emergency Plan.

COMMENT:

Project Manager should insure that proper and timely action is taken during spill events to minimize environmental harm and insure public health and safety. Draft plan has been submitted to the NED Emergency Management Center and is pending approval.

FINDING:

Minor Deficiency (HO) (ST)

CONDITION:

Facility does not have a Material Safety Data Sheet (MSDS) for each hazardous chemical stored and used at the facility.

CRITERIA:

MSDSs must be on file and readily accessible to workers for each hazardous

material stored or used (40 CFR 1910.1200 (g) (1) 1910.1200(g) (8)).

LUTION:

Safety office is in process of reviewing chemical lists provided from each project. From this list MSDSs will be distributed to the projects and stored

in an orderly and highly visible fashion. Project Manager should independently obtained MSDs when purchasing new chemicals.

COMMENT:

MSDSs are necessary to assure proper product use and to mitigate harmful

effects.

FINDING:

Management Practice (HO) (ST)

CONDITION:

Creosote coated stop logs are stored at Hop Brook Lake and Stamford

Hurricane Barrier.

CRITERIA:

Use of hazardous materials should be minimized to the greatest extent

possible.

SOLUTION:

Assess the need for stop logs and dispose of properly if they are no longer

needed. It logs are still needed, consider replacement with pressure treated lumber. Workers should take precautions to minimize contact when handling

creosote treated timbers (i.e. gloves, long sleeved shirts).

FINDING:

Minor Deficiency (HO)

CRITERIA:

Inside flammable/combustible storage room does not meet parameters for ventilation and containment specified in NFPA 30 4-4.1.2 Flammable and

Combustible Liquids and 29 CFR 1910.106(d)(4).

SOLUTION:

Project Manager should discontinue storing hazardous material within the paint locker in the utility building. Project Manager reported that 3 fireproof lockers have been ordered and 1 additional locker for the Stamford Hurricane

Barrier to contain these materials.

COMMENTS:

Poor Ventilation in the paint room creates an unhealthy environment and

potential fire hazard for workers.

HAZARDOUS WASTE MANAGEMENT

"NDING:

A current file of applicable Federal, Corps, and state/local Hazardous Waste Management regulations, directives and guidance documents has been furnished to the Project Manager. The following documents should be maintained and updated: 40 CFR 260-271, 40 CFR 372, 49 CFR 172-179, Federal Facilities Compliance Act, state hazardous waste regulations, policy letters. ER 1130-2-434.

COMMENT:

Knowledge of regulations required to assure safe and environmentally compatible handling of hazardous materials.

FINDING:

Minor Deficiency (HO) (HA) (ST)

CONDITION:

Projects lack a contingency plan for responding to the discovery of potential

HTW contaminated sites.

CRITERIA:

A contingency plan outlining steps to follow upon discovery of potential

HTW contaminated sites should be in place.

SOLUTION:

A contingency plan for investigating potential HTW sites should be

developed. Project Manager should have training necessary to implement the

plan.

JMMENT:

If proper steps are not taken to investigate potential HTW sites, project personnel or the public could be unnecessarily exposed to hazardous/toxic

wastes.

NATURAL RESOURCE MANAGEMENT

NDING:

Minor Deficiency (HO) (HA)

CONDITION:

A detailed field survey to determine if any Federal or state listed threatened or endangered species occur in the project area is lacking. Without such a survey, the possibility that normal project operations may harm Federal or state listed species cannot be ruled out.

CRITERIA:

The Federal Endangered Species Act (16 USC 1536) prohibits actions which jeopardize the continued existence of threatened or endangered species, or destroy or adversely affect critical habitat of such species. Similar protection is provided by the Connecticut Endangered Species Act.

SOLUTION:

Project Manager should coordinate with Planning Directorate to program funds to conduct a survey of project areas to determine if any rare threatened and endangered species are present at the project. If any are found, management plans for the species should be developed and implemented.

FINDING:

Management Practice (HA) (ST)

CONDITION:

The existing Environmental Assessment/FONSI for operation and maintenance activities does not accurately address current conditions and project impacts at Hancock Brook Lake and the Stamford Hurricane Barrier. EA for Hop Brook Lake was prepared in March 1994.

CRITERIA:

An up-to-date Environmental Assessment describing existing project conditions and impacts of project operation on natural and cultural resources should be available.

SOLUTION:

Project Manager should coordinate with Planning Directorate to update the Environmental Assessment/FONSI.

FINDING:

Management Practice

COMMENT:

There are no minimum releases rates established at Hop Brook Lake and Hancock Brook Lake during normal and/or low flow periods. Project storage requirements were designed such that all outflow be maintained equal to inflow during non-flood periods. Projects were not designed to augment low flows.

During flood periods, however, minimum releases are maintained between 10-15 cfs in an effort to support downstream aquatic life in the immediate proximity of the project without contributing significantly to the downstream flood condition. At these projects, flows are reduced to enable a safe inspection of the conduit. Generally, some flow is passed downstream due to gate leakage and time of closure is less than one hour, thereby reducing downstream impacts.

CRITERIA:

Periodic Inspections and routine maintenance require, at times, that discharge be reduced to allow safe access to the outlet conduit for short durations (less than one hour). These unavoidable flow conditions should be gradually made to minimize stranding of downstream aquatic life.

SOLUTION:

Planned (non-emergency) closure schedules for maintenance and inspection should be coordinated with the U.S. Fish and Wildlife Service and State Fish and Game agencies to ensure that critical seasons which might impact aquatic life are avoided. Periodic Inspection Project Manager should formally contact the pertinent agencies 30 days in advance of scheduled maintenance and inspection to assure full review and comment.

FINDING:

Minor Deficiency (HO) (HA)

CONDITION:

No survey of shoreline or land erosion at projects is available.

_RITERIA:

Measures shall be provided to control erosion damage to land (ER 1130-2-

400 and EM 1110-1-400).

SOLUTION:

Project Manager should survey project lands for erosion, and implement a

shoreline and land erosion control plan.

FINDING

Minor Deficiency (HO) (HA) (ST)

CONDITION 1:

Master Plans for these projects are outdated and do not reflect current

development of natural or man-made resources at these projects.

CRITERIA:

ER 1130-2-435 section (10)(a) requires scheduling of revision of master plans

within 5 years of date of the regulation (30 December 1987).

SOLUTION:

Project Manager should coordinate with Planning Directorate to program resources to update the Master Plans within the next five years.

CONDITION 2:

Fish and Wildlife Management Plans (Appendix D to the Master Plan) are outdated and do not emphasize the maintenance and restoration of habitat favorable to the production of indigenous fish and wildlife (current 5 year management plans are dated August 1982 and expired August 1987).

CRITERIA:

Fish and Wildlife plans must address the management of all indigenous species and be based upon the following:

- inventory of fish and game species

- inventory of endangered, threatened and other special interest plant or animal species

- survey of non-game wildlife other than endangered species

- verify that fishing, hunting and trapping are authorized and controlled in conformance with Federal and state laws, local regulations and approved management plans (ER 1105-2-50, para. 2-1).

SOLUTION:

Update the current Fish and Wildlife Management plans to include and emphasize items mentioned above. Assure that State F & W management plans are kept current and included into the Project plan.

COMMENTS:

The Fish and Wildlife Management Sections of the Projects OMP have been written to address the above concerns on that portion of the Project not under lease to the CT DEP. The OMP was submitted to Project Operations and Readiness Division for review in January, 1994. That office has not as yet submitted it to the Division Engineer for his approval.

CONDITION 3:

Forest Management Plans (Appendix B to the Master Plan) are outdated and do not adequately address provisions for sustained production of timber and/or compatible with multiple use resource management objectives. The most current five-year management plan were dated August 1982, and expired August 1987.

CRITERIA:

The Forest Management Plan must be current and include the following: (ER 1130-20400 para. 11(1)).

- volume inventories conducted and kept current

- small volume (including firewood) sales are in accordance with regulations

- harvesting and treatment

- sustained yield

- improve vegetation conditions

- control pests

- improve watersheds

- improve wildlife habitat

- complement natural beauty values

SOLUTION:

Forest Management Plans need to be revised and updated to include provisions which address the resource management objectives listed above.

FINDING:

Minor Deficiency (HO) (HA) (ST)

CONDITION:

Project Operational Management Plans (OMPs) have not been developed in coordination with the planning, real estate and safety elements.

CRITERIA:

All Corps facilities are required to develop and maintain a project OMP (ER

1130-2-400 para. 6 and para. 9 through 11 Appendix B).

SOLUTION:

Project Manager should develop OMPs for all projects in accordance with ER 1130-2-400 and assure that they address all operational projects in the Master Plan (ER 1130-2-435). Verify that the OMPs have been approved by the Division Commander and are updated as required.

FINDING:

Management Practice (HA)

CONDITION:

Wetlands at Hancock Brook Lake have not been identified, inventoried and protected. Wetlands at Hop Brook Lake were delineated as part of the updated EA in March 1994.

CRITERIA:

Wetlands should be identified and protected. All activities in the wetlands are to be conducted in accordance with state and federal regulations.

SOLUTION:

Project Manager should coordinate with Planning Directorate to survey, identify and delineate wetlands at Hancock Brook Lake.

PESTICIDES MANAGEMENT

NDING:

All three projects are participating in the division Pest Management Program

in accordance with ER 1130-2-413, para. B. a. (2).

FINDING:

Minor Deficiency (HO) (HA)

CONDITION:

Project does not have a Vegetation Control Plan.

CRITERIA:

All projects are to prepare a Vegetation Control Plan to delineate project

structures and areas requiring vegetation control measures in accordance with

ER 1130-2-413 dated 16 Aug 1989.

SOLUTION:

Project Manager should prepare a Vegetation Control Plan and submit for

review and approval.

COMMENT:

A detailed Vegetation Control Plan is scheduled to be completed in the

project's 1994 annual work plan.

PETROLEUM OIL LUBRICANT (POL) MANAGEMENT

NDING:

A current file of applicable Federal, Corps, and state/local POL Management regulations, directives and guidance documents has been furnished to the Project Manager. The following regulations should be maintained and kept current at the facility: 29 CFR 1910, 33 CFR 153, 40 CFR 110, 112, 40 CFR 266, EM 385-1-1, EP 415-1-261, ER 500-1-1, appropriate state/ local regulations.

COMMENT:

Lack of or incomplete regulatory files may result in poor POL Management practices. Project Manager should maintain these materials and update as necessary.

SOLID WASTE MANAGEMENT

NDING:

Management Practice (HO) (ST)

CONDITION:

Various items of questionable utility are stored at the project office, basin office, and garages at Hop Brook Lake and at Stamford Hurricane Barrier.

CRITERIA:

Excess material should be stored in an orderly manner. Items not likely to be

of future use should be properly disposed.

SOLUTION:

Assess need for items stored at the site. Items not likely to be of future use

should be properly disposed. Scrap metal should be recycled.

FINDING:

Major Deficiency (HO) (HA)

CONDITION:

Projects are not recycling glass, aluminum, or plastic in recreation areas. All towns in the State of Connecticut are required by state law to have mandatory

recycling ordinances.

CRITERIA:

Solid Waste Disposal Act of 1966 and the Federal Facilities Compliance Act

of 1992 requires full Federal compliance with state and local solid waste

disposal laws.

JUTION:

Project Manager should develop and institute a recycling program.

FINDING:

Major Deficiency (HO)

CONDITION:

An open dump is present at Hop Brook Lake. Material disposed at the dump consists largely of woody debris collected by the log boom. Project staff is in

the process of sorting tires and waste metal from the dump.

CRITERIA:

Open dumping of solid waste is prohibited by Section 22a-209-2 of the

Connecticut Solid Waste Management Regulations.

SOLUTION:

Project Manager should develop a landfill closure plan in coordination with

the Connecticut Department of Environmental Protection. Landfill should be

cleaned-up and closed in accord with their recommendations.

FINDING:

Minor Deficiency (HO) (HA)

ONDITION:

Trash receptacles used in the recreation and public use areas do not have

covers.

CRITERIA:

Trash receptacles are required to have functioning lids (40 CFR 243.200-1

(a) and EM 385-1-1).

SOLUTION:

Provide trash receptacles with lids.

FINDING:

Minor Deficiency (ST)

CONDITION:

A large quantity of used zinc cathodic protection plates at Stamford Barrier

are stored in the storage garage at the project.

CRITERIA:

Materials not likely to be of future use should be properly disposed.

SOLUTION:

Assess need for items stored at the site. Items not likely to be of future use

should be properly disposed. Scrap zinc plates should be recycled.

SPECIAL POLLUTANTS - ASBESTOS

NDING:

Minor Deficiency (HO) (HA) (ST)

CONDITION:

An asbestos survey of these projects has not been conducted.

CRITERIA:

All Corps' facilities are required to conduct an asbestos survey of all their

facilities (ER 200-2-2).

SOLUTION:

Project Manager should arrange to have an asbestos survey conducted at all Hop Brook and Hancock Brook Lakes and Stamford Hurricane Barrier facilities. Where asbestos containing material (ACM) is suspected, limited personal activity should take place until results of survey is completed.

COMMENT:

Project Manager should coordinate with the Safety and Occupational Health

office to schedule asbestos surveys of the project.

SPECIAL POLLUTANTS - NOISE

NDING:

Minor Deficiency

CONDITION:

A noise survey has not been conducted to identify potential noise hazards and

to determine adequate personnel protection.

CRITERIA:

Personnel shall not be exposed to 85 dB(a) or 140 dB impulse where

engineering or administrative controls are not instituted (EM 385-1-40,

Occupational Health, EM 385-1-1, Safety Manual).

SOLUTION:

Project Manager should conduct noise survey and institute controls where

needed.

SPECIAL POLLUTANTS - RADON

NDING:

In FY 91 a radon survey was conducted at Hop Brook Lake and Stamford Hurricane Barrier facilities. Results of testing are as follows:

LOCATION pCi/I Hop Brook Lake Control Tower 10.10 Control Tower 1.50 Basin Office, 2nd floor .50 Basin Office, 1st floor .30 Utility Building .30 Stamford Hurricane Barrier Operating Floor, East .30 Operating Floor, West .30

E. Branch Pump Station #1

CRITERIA:

Areas sampled which test at 4.0 picoCuries/liter or lower require no further attention. Areas sampled which test at 4.0 picoCuries/liter or higher require long range testing and/or mitigation within 5 years. Areas which test at 20.0 picoCuries/liter or higher require immediate mitigation and retesting.

.30

COMMENTS:

- 1) Radon survey program was conducted under the Army Radon Reduction Program (ARRP) administered by USAEHSC.
- 2) A sign in sheet has been placed in the control tower to monitor the exposure of employees to radon gases. Project Manager should assure that no individual be exposed to more than 80 hours of radon in this location.

SPECIAL POLLUTANT - PCBs

FINDING:

Facilities do not have any PCB transformers. A PCB spill was reported at Hop Brook Lake.

UNDERGROUND STORAGE TANKS

NDING:

A current file of applicable Federal, Corps, and state/local regulations pertaining to UST operation, maintenance & closure has been furnished to the Project Manager. The following regulations should be maintained and updated at the project: ER 1130-2-434, 40 CFR 112.7 & 40 CFR 280, appropriate state and local regulations.

COMMENT:

Project Manager should maintain these materials in an organized and easily assessable manner and update as required. Failure to maintain updated regulations could result in deficient monitoring/upgrading of USTs, increasing the likelihood of leakage.

WASTEWATER MANAGEMENT

astewater is generated at the project office, basin office and four comfort stations in the recreation area. Disposal of this wastewater is accomplished on-site through five separate septic systems, one for each of the above areas. Each system consists of septic tanks and, either leaching fields or chambers. A site visit was made by the ERGO inspection team. Although no physical inspections of the septic tanks were conducted during this visit, project personnel indicated they have had no problems with the systems. Sludge is pumped from the tanks when necessary. Pumping frequency varies with each individual system, but is usually between 1 and 3 years.

FINDING:

Minor Deficiency (HO)

CONDITION:

Floor drains are located in the project office garage bays and discharge into

the office's septic system.

CRITERIA:

Combined discharge of vehicle maintenance floor drainage and stormwater runoff into a waterway is considered a point source discharge which must be permitted under the NPDES program in accordance with 32 CFR 650.66. On the other hand, according to this regulation and Connecticut State statute 22A-430-3, discharge of vehicle maintenance floor drains to a septic system

is not allowed.

SOLUTION:

Confirm the terminal location of the floor drain discharge piping. The Connecticut Bureau of Water Management recommends three methods to meet regulations for vehicle maintenance floor drains. The first is to connect the floor drains to an oil-water separator and then to a municipal sanitary sewer. Although this is considered the best way to handle the discharge, no sanitary sewer line is located near Hop Brook Lake. Therefore, one of the remaining two methods would have to be used: (a) install a holding tank for floor drainage and set up a contract to have the waste periodically hauled away, or (b) seal the drains completely. This last method is recommended by the State, since there is no liability or cost involved in paying a waste handler every time the wastewater is hauled away. Sealing the drains, however, would create an additional burden on project personnel since they would have to mop the floor using detergents after vehicle maintenance activities. Mop water can then be poured into the sink to the septic system without violating regulations.

WATER QUALITY MANAGEMENT

POTABLE WATER PROGRAM:

The project office, basin office and 2 comfort stations are supplied with drinking water from wells. Five wells have been drilled in the area. These wells are designated as transient noncommunity wells since they serve more than 25 people but not the same population for at least 6 months. The NED Environmental Laboratory monitors water quality for each well at Hop Brook Lake. NED uses this laboratory to sample and test drinking water at all of its wells. Sampling frequency is tied to usage. All wells are monitored at least quarterly during the months in operation. Deficiencies noted are as follows:

FINDING:

Minor Deficiency (HO)

CONDITION:

Wells at Hop Brook Lake are not registered with the State of Connecticut as

transient non-community water supplies.

CRITERIA:

Under 40 CFR 142.10 (adopted under provisions of the Safe Drinking Water Act -Public Law 93-523), a State has primary enforcement responsibility for public water systems. Connecticut Department of Health Services requires the wells to be registered with them, and submittal of bacterial and physical characteristic samples from these wells four times a year and nitrate-nitrite

samples once a year.

SOLUTION:

Project Manager should register both wells with the Connecticut Department of Health Services, Water Supply Section. Point of contact is Cheryl

Robbins. (203) 566-1253. Environmental Lab will register wells.

FINDING:

Minor Deficiency (HO)

CONDITION:

NED's Environmental Laboratory is not certified by the State of Connecticut

to perform bacterial and other required analyses in drinking water.

CRITERIA:

Under 40 CFR 142.10 (adopted under provisions of the Safe Drinking Water Act - Public Law 93-523) analyses must be performed at a certified lab, and

the State has primary enforcement responsibility for public water systems

including certification of laboratories.

JLUTION:

NED's Environmental Lab should apply to the Connecticut Department of Health Services, Bureau of Labs for certification to perform required analyses of drinking water. Point of contact is Nicholas Macelletti whose phone number is (203) 566-2438

FINDING:

Minor Deficiency (HO)

CONDITION:

Results of routine monitoring of potable water sources are to be reported to

the State within 24 hours.

CRITERIA:

Prompt reporting of potable water monitoring results is required under

provisions of the Safe Drinking Water Act - Public Law 93-523.

SOLUTION:

Once the wells have been registered with the State, sampling and testing

results of routine monitoring performed by the NED Environmental

Laboratory shall be reported to the State within a 24- hour period. Point of

contact is Cheryl Robbins at the Department of Health Services, Water

Supply Section ((203) 566-1253).

RESERVOIR WATER QUALITY PROGRAM:

The NED reservoir water quality management program at Hop Brook Lake has multiple goals. Its primary purpose is to protect public health and safety, but additional goals include meeting State water quality standards, maintaining water quality suitable for all project purposes, and understanding the effects of project operations on water quality. NED's Water Quality Team meets as needed during the year to determine needs at each project and carry out the annual program.

Although water quality management is not a defined purpose at any project operated and maintained by NED, the Corps has a strong interest in water quality. Executive Order 11752, "Prevention, Control, and Abatement of Environmental Pollution at Federal Facilities," 19 December 1973, makes it a stated national policy that the Federal Government, in the design, construction, management, operation, and maintenance of its facilities, shall provide leadership in the nationwide effort to protect and enhance the quality of air, water, and land resources. Section 102b of the Federal Water Pollution Control Act Amendments of 1972 places responsibility with EPA for determination of the need for, the value of, and the impact of storage for water quality control in any reservoir project not in a construction status as of 18 October 1972. The responsibility for water quality at our projects, however, clearly rests with the Corps since it is an integral part of water control management activities (reference ER 1130-2-334, dated April 1986, and ER 1130-2-415, dated October 1976).

JTABLE WATER PROGRAM:

The two restroom areas are supplied with drinking water from wells. Three wells have been drilled in the area. The three wells currently in use are located at the upper-end and West Lawn areas. The third restroom at the beach is supplied by city water. As-built drawings and boring logs showing well locations and depths are maintained at the project office.

These wells are designated as transient noncommunity wells since they serve more than 25 people but not the same population for at least 6 months. The NED Barre Falls Environmental Laboratory monitors water quality for each well at Hop Brook Lake. NED uses this laboratory to sample and test drinking water at all of its wells. Sampling frequency is tied to usage. All wells are monitored at least quarterly during the months in operation. Deficiencies noted are as follows:

FINDING:

Minor Deficiency (HO)

CONDITION:

The five wells at Hop Brook Lake are not registered with the State of

Connecticut as non- community water supply wells.

CRITERIA:

Under 40 CFR 142.10 (adopted under provisions of the Safe Drinking Water Act -Public Law 93-523), a State has primary enforcement responsibility for public water systems. Connecticut Department of Health Services requires the wells to be registered with them and submittal of bacterial and physical characteristic samples from these wells four times a year, and nitrate- nitrite

samples once a year.

SOLUTION:

Register wells with the Connecticut Department of Health Services, Water Supply Section. Point of contact is Cheryl Robbins whose phone number is

(203) 566-1253.

FINDING:

Minor Deficiency (HO)

CONDITION:

NED's Environmental Laboratory is not certified by the State of Connecticut

to perform bacterial and other required analyses in drinking water.

CRITERIA:

Under 40 CFR 142.10 (adopted under provisions of the Safe Drinking Water Act - Public Law 93-523) analyses must be performed at a certified lab, and the State has primary enforcement responsibility for public water systems

including certification of laboratories.

JLUTION:

NED's Environmental Lab should apply to the Connecticut Department of Health Services, Bureau of Labs for certification to perform required analyses of drinking water. Point of contact is Nicholas Macelletti whose phone number is (203) 566-2438.

FINDING:

Minor Deficiency (HO)

CONDITION:

Results of routine monitoring of potable water sources are to be reported to

the State within 24 hours.

CRITERIA:

Prompt reporting of potable water monitoring results is required under

provisions of the Safe Drinking Water Act (Public Law 93-523).

SOLUTION:

Once the wells have been registered with the State, sampling and testing

results of routine monitoring performed by the NED Environmental

Laboratory shall be reported to the State within a 24- hour period. Point of

contact is Cheryl Robbins at the Department of Health Services, Water

Supply Section at (203) 566-1253.

ACH WATER QUALITY MONITORING PROGRAM:

Waters at Hop Brook Lake are designated as class B waters which are suitable for fishing, swimming, and all other water uses. The Corps maintains a public swimming beach in the recreation area on Hop Brook Lake. NED monitors Hop Brook Lake recreation area in accordance with water quality standards for class B fishable/swimmable waters based on fecal coliform.

FLOATING PLANT MANAGEMENT

FINDING:

There were no Floating Plant Management findings at Hop Brook Lake, Hancock Brook Lake or Stamford Hurricane Barrier.

NEW ENGLAND DIVISION ERGO TEAM

Bruce Williams - Program Manager Operations Directorate Project Operations and Readiness Division Environmental Compliance Coordinator - NED Member, NED's Water Quality Team

Jim Law Operations Directorate Project Operations and Readiness Division

Mike Penko Planning Directorate Impact Analysis Division Endangered Species Coordinator - NED

Mark Paiva Planning Directorate Economics and Resource Analysis Branch Archaeologist

Townsend Barker Engineering Directorate Water Control Division Chair - NED's Water Quality Team

Jim Peck Safety and Occupational Health Office Safety Manager - NED

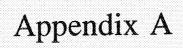
Anne Laster Real Estate Directorate Conveyancing Division the following individuals participated in the pre-assessment evaluation, field inspection and/or in the research and evaluation of environmental compliance guidance:

Naugatuck River Basin:

Reese Morgan - Basin Manager

Hop Brook Lake, Hancock Brook Lake and Stamford Hurricane Barrier:

Les Butler - Project Manager Troy Fitzsimmons - Park Ranger Mark Garrity - Park Ranger Chris Way - Park Ranger



ERGO

Environmental Review Guide for Operations

PREASSESSMENT ENVIRONMENTAL MANAGEMENT QUESTIONNAIRE

This questionnaire will provide background information necessary to plan and conduct an environmental compliance assessment. References provided in this questionnaire are to assist in answering the questionnaire and are not intended to be all-inclusive. Refer to the Major Activities/Operations Table to determine where activities/operations overlap into several different sections.

Name of Facility: Hop Brook Lake		
QUESTION/DESCRIPTION	RESPONSE	REFERENCE
SECTION 1, Air Emissions Management:		
1. Does the facility operate steam generating units (fuel burners, central steam plant, hot water boiler, or hot water steam boiler)? Three fuel oil burners located at Hop Brook Lake Project Office, dam control tower and Naugatuck River Basin Offic	YES e.	If YES, see ERGO items 1-4 through 1-7.
2. Does the facility dispense, store, or transfer gasoline? Project purchases gasoline and diesel in small quantities locally and transports in 5 Gal. safety cans for storage in fire proof storage room at utility building. Types gasoline and diesel	_YES_	If YES, see ERGO items 1-8 through 1-13.
3. Does the facility have volatile organic compounds (VOCs) (generally, but not exclusively, found in solvents)?	<u>NO</u>	If YES, see ERGO items 1- 14 through 1-18.
4. Does the facility burn trash, plant waste, or other solid waste (open burning?		
Local fire officials are notified prior to burning of plant waste.	YES	If YES, see ERGO item 1- 19.
5. Does the facility have fugitive emissions from volatile hazardous air pollutant (VHAP) equipment?	NO	If YES, see ERGO items 1- 20 through 1-27.

RESPONSE REFERENCE QUESTION/DESCRIPTION 6. Does the facility procure CFCs and/or halons? l refrigerator, 2 central AC units and l window AC unit at YES YES. see ERGO items 1the Project Office. l refrigerator and l window AC unit at Basin Office. 28 through 1-32. SECTION 2, Cultural and Historic Resources Management: 1. Does the facility have any properties under its jurisdiction? YES YES. see Bradleyville ERGO items 2-4 through 2-10 2. Does the facility have cultural resources? List the facility's cultural resources below: YES YES. Exhibit 1-3. Bradleyville, Bradleyville Sawmill & Knife Company ERGO items 2-11 through 2-15. railroad embankment, Baker site and Reagan site. 3. Is the facility's master plan or operational management plan (OMP) public document? OMP, subject to approval, does not provide locations YES YES. If see ERGO item 2of historic properties. 13. 4. Does the facility have an operational project? YES If YES. see ERGO item 2-12. 5. Does the facility have any Native American graves or artifacts, or have any been discovered during an operation? NO YES. see ERGO item 2-16. 6. Does the facility have an archeological or historical collection? NO

YES.

ERGO items 2-17 through 2-28.

SCC

SECTION 3, Hazardous Materials Management:

1. Does the facility store any hazardous materials (e.g., paint, solvents, pesticides)? Hazardous Materials Inventory has been completed in accordance with 29 CFR 1910.1200. Ehibit 4.	YES	If YES, see ERGO items 3-4 through 3-9.
Types paints, solvents, petroleum products		
2. Have there been any releases of hazardous substances at the facility?	NO	If YES, see
None on site, but there have incidents outside of project boundaries. Exhibit 5. Oil & Hazardous Substance Incidents and Contingency Plan is completed and pending approval.		If YES, see ERGO items 3- 13 through 3-15.
3. Are there any extremely hazardous substances at the facility?	NO	If YES, see ERGO item 3-16 and 3-17.
4. Does the facility: have extremely hazardous substances in excess of 225 kilograms (kg), 500 pounds (lb), or the threshold planning quantity (see Appendix 3-1); have hazardous chemicals in excess of 4500 kg or 10,000 lb; or fall under Standard Industrial Classification Codes 20 to 39?	NO	
	NO 	If YES, see ERGO item 3-16 and 3-17.
5. Does the facility store flammable/combustible liquids in lockers, rooms, storage sheds, tanks, or industrial areas? Paints, solvents and various petroleum based products along with gasoline and diesel stored in safety cans.	YES	If YES, see ERGO 3-18 through 3-23 and 3-28 through 3-48.
6. Does the facility have hazardous materials in laboratories?	NO	If YES, see
		ERGO items 3- 24 through 27.
7. Does the facility store compressed gases? Propane for soldering and acetylene for metal cutting.	YES	If YES, see ERGO items 3- 49 through 3-52
8. Does facility store acids?	NO	If YES see ERGO item 3- 53.

QUESTION/DESCRIPTION	RE:	SPONSE	REFERENCE
Does the facility transport hazardous material or offer such naterials for transport?			
	<u>-</u>	NO	If YES, see ERGO items 3-54 through 3-57.
SECTION 4, Hazardous Waste Management:			
I. Is the facility a generator of hazardous waste?			
Largest amount generated in 1 mo	lards	NO	If YES, see ERGO items 4-5 through 4-11.
a. Is the facility a very small quantity generator?	~	NO	If YES, see ERGO item 4-12 through 4-15.
b. Is the facility a small quantity generator?	~	NO	If YES, see ERGO items 4-16 through 4-31.
c. Is the facility a large quantity generator?	•	NO	If YES, see ERGO item 4-32 through 4-67.
Complete this section i	next.		
Any waste that is not excepted, is listed in 40 CFR 261, or exhibits nazardous waste:	s one or more of the	following (characteristics is a
 Ignitability (flash point < 140 °F) Corrosivity (pH < 2 or > 12.5) TCLP Toxicity (for As, Ba, Cd, Cr, Pb, Hg, Se, Ag, and Reactivity (or CN). 	selected pesticides)		
The following are hazardous wastes that may typically be found at	a Corps facility:		
CHECK IF USED AT THIS FACILITY	Vol Gen/mo lb	kg	Vol Accum lb kg
X Solvents		******	

<u>X</u>	Liquid Paint	*******			
<u>X</u>	Paint stripper, remover, or thinner	•		MANAGEMENT .	*
-	Spray paint booth air filters	and deliverance of the second	**********		
<u>X</u>	Pesticides, Insecticides, Herbicides, etc.	·	-		
	NBC filters and test kits	•			
	DS2 (diethlene triamine)				
***************************************	STB (super topical bleach)			<u></u>	***
	Ordnance, ammunition, explosives, and residues		- Announce -		
X	Battery acid and caustics (in unserviceable batteries)		***************************************	·	
*****	Some pharmaceuticals				*******
	POL tank farm fuel system filters	••••			
<u>X</u>	Deicing solution				
<u>X</u>	Printing ink, ink solvents, and ink cleaners	·			
<u>X</u>	Absorbent materials and soil contaminated with hazardous waste		********		******
<u>X</u>	Other air craft cleaner	**********			
<u> </u>	Other_creosote	**************************************		******	
	Other		•••••		****
	TOTAL			**********	
Chlorina	Trichlorethane, Methylene, Chloride, Tetrachloroethylene ated Fluorocarbons, Toluene, MEK, Break-free in liquid for	m, Mineral Spi	rits, Xylene		ıloride
USEPA	Generator Designation: X Unregulated Small	Qty1	Large Qty		
QUESTIC	ON/DESCRIPTION CONTROL OF THE PROPERTY OF THE	RI	ESPONSE	REFERENCE	
2. Does : States?	the facility export/import hazardous waste from/to the Unite	ed	NO		
			NO	If YES, ERGO items 129.	see 4-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
3. Does the facility transport hazardous waste?	_NO	If YES, see ERGO items 4-68 through 4-72.
4. Does the facility have a treatment, storage, or disposal facility (TSDF)?	<u>NO</u>	If YES, see ERGO items 4- 73 through 4- 157.
a. Does the TSDF receive waste from a foreign source?	NO	If YES, see ERGO item 4- 129.
b. Does the facility receive waste from offsite sources?	NO	If YES, see ERGO items 4- 128 and 4-131.
c. Does the facility handle ignitable, reactive, or incompatible wastes?	NO	If YES, see ERGO item 4-77 through 4-82.
5. Does the facility have hazardous waste containers? Two 20 gallon hazardous waste disposal drums which comply with DOT 21C E7768.	YES	If YES, see ERGO items 4- 83 through 4-90.
6. Does the facility store hazardous wastes in tanks?	NO	If YES, see ERGO items 4- 91 through 4- 101.
7. Does the facility incinerate hazardous waste?	NO	If YES, see ERGO items 4- 158 through 4- 166.
8. Does the facility have restricted wastes?	NO	If YES, see ERGO items 4- 167 through 4- 176.

RESPONSE REFERENCE

QUESTION/DESCRIPTION

SECTION 5, Natural Resources Management:

1. Does the facility have any construction projects (or had in previous 5 yr)? Railroad Embankment stabilization, project office add., wildlife observation deck, new parking lots at Project (& rec. area, and new rec. restroom.	<u>YES</u> Office	If YES, sec ERGO item 5-4 and 5-5.
 Does the facility have land management responsibilities? 537.9 acres in fee, 17.7 acres of easements. Exhibit 7 & 8. 	YES	If YES, see ERGO items 5-7 and 5-8.
3. Does the facility have floodplains or wetlands? Exhibit 9.	_YES	If YES. see ERGO item 5-9.
4. Does the facility have forests?		
Exhibit 10. Last timber survey completed 8/21/91.	YES	If YES, see ERGO item 5-10 and 5-11.
E. Dogg the facility contain a charaling?		anu 5-11.
5. Does the facility contain a shoreline?	YES	If YES, see ERGO item 5-12.
6. Does the facility have endangered or threatened species? Exhibit 11 & 12.	<u>NO</u>	If YES, see ERGO items 5-13 and 5-14.
SECTION 6, Pesticides Management:		
1. Do facility personnel engage in the application of pesticides? Periodic herbicide applications for O&M purposes are performed by state licensed contractors only, none performed by Corps personnel.	NO	If YES, see ERGO items 6-7 through 6-16.
2. Does the facility store, mix, or formulate pesticides?	NO	If YES, see ERGO items 6- 17 through 6-28.
a. Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbanes symbol)?		
crossbones symbol)? Handling and application performed only by state licensed contractors.	NO	If YES, see ERGO items 6-20 through 6-27.

RESPONSE REFERENCE

3. Does the facility dispose of pesticides?	NO	If YES, see ERGO items 6-29 through 6-33.
SECTION 7, Petroleum, Oil, and Lubricant (POL) Management:		
1. Does the facility store, transport, or dispense petroleum products? Temporary storage of gasoline, diesel, oil, grease and other lubricants for use in O&M equipment as needed. Gasoline and diesel stored in safety cans in utility	YES	If YES. see ERGO items 7-5 through 7-13.
building fire proof room. 2. Have there been any discharges of oil at the facility?	NO	If YES, see ERGO items 7-14 and 7-15.
3. Does the facility have any belowground or aboveground bulk storage tanks with a capacity more than 660 gallons?		
Belowground Size Aboveground Size Facility has above ground storage tanks at dam tower and Basin Office. Both are scheduled for replacement in FY94 w/ secondary containment systems. Both are under 660 gals	NO	If YES, see ERGO item 7-17.
4. Does the facility use dikes as a means of containment for petroleum storage tanks?		
	NO	If YES, see ERGO items 7-18 and 7-19.
5. Does the facility have any pipelines?	NO NO	If YES. see ERGO items 7-21 through 7-29.
6. Does the facility generate used oil?	NO	If YES, see ERGO items 7-31 through 7-72.

RESPONSE REFERENCE

YES.

ERGO item 8-

23.

NO.....

QUESTION/DESCRIPTION

SECTION 8, Solid Waste Management:

c. Does the facility accept special wastes?

1. I	Does the	facility	collect	or	store	solid	waste on	site?
------	----------	----------	---------	----	-------	-------	----------	-------

Is solid waste collection contracted out? YES Solid waste cand recyclable materials from utility bldg. YES If YES, see is collected by contract (DACW33-93-M-1077). Solid waste collection for recreation area is pending. 2. Does the facility recycle and reduce solid waste? Types of recycling paper, card hoard, 1.2,67 plastic, aluminum, metal and glass. Contract DACW33-93-M-1077. a. Does the facility have more than 100 office workers? b. Do more than 500 families reside at the facility? c. Does the facility generate waste corrugated containers? All corrugated card board containers are recycled under yes ergo item 8-18. 3. Does the facility have land disposal onsite? h. Do so the facility dispose of water treatment plant sludges? b. Does the facility dispose of incinerator or air pollution control residues? NO If YES, see ERGO 8-20. If YES, see ERGO 8-20.			
Types of recycling paper, card board, 1,2,57 plastic, aluminum, metal and glass. Contract DACW33-93-M-1077. a. Does the facility have more than 100 office workers? NO. If YES, see ERGO item 8-15. b. Do more than 500 families reside at the facility? NO. If YES see ERGO item 8-17. c. Does the facility generate waste corrugated containers? All corrugated card board containers are recycled under contract DACW33-93-M-1077. 3. Does the facility have land disposal onsite? NO. If YES, see ERGO item 8-18. NO. If YES, see ERGO item 8-19 through 8-33. a. Does the facility dispose of water treatment plant sludges? NO. If YES see ERGO 8-20. b. Does the facility dispose of incinerator or air pollution control residues? NO. If YES, see ERGO item 8-18.	Solid waste and recyclable materials from utility bldg. is collected by contract (DACW33-93-M-1077).	YES_	ERGO items 8-4
metal and glass. Contract DACW33-93-M-1077. a. Does the facility have more than 100 office workers? NO. If YES, see ERGO item 8-16. b. Do more than 500 families reside at the facility? NO. If YES, see ERGO item 8-16. c. Does the facility generate waste corrugated containers? All corrugated card board containers are recycled under contract DACW33-93-M-1077. Jif YES, see ERGO item 8-18. Joes the facility have land disposal onsite? NO. If YES, see ERGO items 8-18. NO. If YES, see ERGO items 8-19 through 8-33. a. Does the facility dispose of water treatment plant sludges? NO. If YES see ERGO 8-20. b. Does the facility dispose of incinerator or air pollution control residues? NO. If YES, see ERGO item 8-19 through 8-33.	2. Does the facility recycle and reduce solid waste?		
b. Do more than 500 families reside at the facility? NO. If YES. see ERGO item 8-16. NO. If YES. see ERGO item 8-17. c. Does the facility generate waste corrugated containers? All corrugated card board containers are recycled under YES. If YES, see ERGO item 8-18. 3. Does the facility have land disposal onsite? NO. If YES, see ERGO items 8-19 through 8-33. a. Does the facility dispose of water treatment plant sludges? NO. If YES see ERGO 8-20. b. Does the facility dispose of incinerator or air pollution control residues? NO. If YES, see ERGO 8-20.	metal and glass.	YES	ERGO item 8-
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a. Does the facility dispose of water treatment plant sludges? NO. If YES, see ERGO items 8-19 through 8-33. NO. If YES see ERGO 8-20. b. Does the facility dispose of incinerator or air pollution control residues? NO. If YES, see ERGO item 8-19 through 8-33.	All corrugated card board containers are recycled under	YES	ERGO item 8-
b. Does the facility dispose of incinerator or air pollution control residues? NO. If YES see ERGO 8-20. If YES, see ERGO item 8-	3. Does the facility have land disposal onsite?	.NO	ERGO items 8-
residues? NO If YES, see ERGO item 8-	a. Does the facility dispose of water treatment plant sludges?	NO	
		NO	ERGO item 8-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
4. Does the facility have a closure site?	_NO	If YES, see ERGO items 8- 34 and 8-35.
5. Does the facility have a new landfill site?	NO	If YES, see ERGO items 8-36 and 8-37.
6. Does the facility handle medical waste?	NO	If YES, see ERGO items 8- 38 and 8-43.
SECTION 9, Special Pollutants Management:		
1. Does the facility have PCBs of any kind?		
Types		
Quantities		
Inventory completed June 23, 1990. Exhibit 13.	NO NO	If YES, see ERGO items 9-4 through 9-11.
2. Does the facility have PCB transformers?	NO	If YES, see ERGO items 9- 12 through 9-19.
3. Has the facility had a PCB spill?	NO	If YES, sec ERGO item 9-20 through 9-22.
4. Does the facility have PCB Items (PCB-contaminated heat transfer or hydraulic systems, electromagnets, switches, voltage regulators, capacitors, circuit breakers, reclosers, or cables)?		
capacitors, cucuit oreakers, recrosers, or caoles).	NO	If YES, see ERGO items 9- 23 through 9-26.
5. Does the facility use PCBs in research?	NO	If YES, see ERGO item 9-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
6. Does the facility store PCBs?	NO	If YES, see ERGO items 9-28 through 9-32.
7. Does the facility transport PCBs or PCB Items?	NO	If YES, see ERGO items 9-33 and 9-34.
8. Does the facility dispose of PCBs or PCB Items?	NO	If YES, see ERGO items 9-35 through 9-46.
9. Does the facility demolish, renovate, or strip components from structures containing friable asbestos?		
Is sampling done? YES USACE Environmental Lab		
Current concerns? Basin Office floor tile to be tested FY94. Generator exhaust system in dam tower to b Concrete pipe w/ a potential to have asbes is stored in recreation staging area. 10. Does the facility dispose of, or transport for disposal, asbestos or asbestos-containing waste?	e removed F	If YES, see ERGO items 9-48 through 9-57.
All disposal performed by state licensed contractors.	NO	If YES, see ERGO items 9-58 through 9-61.
11. Is the facility located in an area with a potential radon problem? Dam tower had an average radon concentration level of 10.10 in 1991. Exhibit 14.	YES	If YES, see ERGO items 9- 62 through 9-64.
12. Does the facility have any possible sources of noise pollution or have a noise hazardous area? Generator area posted for hearing protection requirer and ear protectors are provided. Ear protectors provided for field work.	nent YES	If YES, see ERGO items 9- 65 and 9-66.
SECTION 10, Underground Storage Tanks (USTs) Management:		
 Does the facility have organizational fuel tanks, or USTs? Current oil tank for utility building is scheduled for replacement in FY94 with a release detection in placement. 	or YES	If YES, sec ERGO item 10

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
2. Does the facility fill tanks?	NO	If YES, see ERGO item 10-7 and 10-8.
3. Has the facility repaired, or is it planning to repair, a UST?	NO	If YES, see ERGO item 10-9 and 10-10.
4. Do USTs have release detection?	NO	If YES, see ERGO items 10-11 through 10-18.
5. Does the facility have hazardous substance USTs?	NO	If YES. see ERGO item 10- 19.
6. Does the facility have a deferred UST?	NO	If YES, see ERGO item 10-20.
7. Does the facility have a metallic UST?	NO	If YES, see ERGO items 10-23.
8. Does the facility have new or upgraded USTs (i.e., after May 1986)?	NO	If YES, see ERGO items 10-24 through 10-26.
9. Have the facility USTs undergone a change of service or a closure?	NO	If YES, see ERGO items 10-27 through 10-33.
10. Does the facility have substandard USTs? Scheduled for replacement FY94.	YES	If YES, see ERGO item 10- 34.

RESPONSE REFERENCE

YES

YES,

items

through

ERGO

12-11

12-36.

SECTION 11, Wastewater Management:

SECTION 12, Water Quality Management:

1. Does the facility perform contaminant monitoring on its water supply?

Performed by USACE Environmental Lab.

 Does the facility have any point source discharges or domestic sewage treatment plants? 		
domestic sewage deathent plants:	NO	If YES, see ERGO items 11-5 through 11-9.
2. Does the facility have stormwater discharge not covered by a NPDES permit?	NO	If YES, see ERGO item 11-10.
3. Does the facility discharge to a publically-owned treatment works (POTW)?	<u>NO</u>	If YES, see ERGO items 11-11 through 11-13.
4. Does the facility have any personnel engaged in the operation of water pollution control devices?		
Control devices:	NO_	If YES, sec ERGO items 11-14 through 11-16.
5. Does the facility have electroplating operations?	NO	If YES, see ERGO item 11- 17 through 11- 28.
6. Does the facility conduct or issue permits for dredging operations? Last dredging operation occured in 1991.	YES	If YES, see ERGO items 11-29 through 11-36.

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QUESTION/DESCRIPTION	RESPONSE	REFERENCE
2. Does the facility provide disinfection/filtration for water?	_NO	If YES, see ERGO items 12-37 through 12-45.
3. Is the facility located near a sole source aquifer?	NO	If YES, see ERGO item 12-55.
4. Does the facility use surface water or groundwater under the influence of surface water for drinking water?	NO	If YES, see ERGO items 12-46 through 12-48.
5. Does the facility have recreational potable water sources? Water quality tested by USACE Environmental Lab.	YES	If YES, see ERGO item 12-56.
6. Does the facility have swimming beaches? Water quality tested by USACE Environmental Lab.	YES	If YES, see ERGO item 12- 57.
7. Does the facility have swimming pools?	NO	If YES, see ERGO item 12- 58.
8. Is the facility authorized to provide emergency drinking water?	NO	If YES, see ERGO item 12- 59.
SECTION 13, Floating Plant Management:		
1. Does the facility have or operate any floating plant?	NO	If YES, see ERGO items 13-1 through 13-46.
Signature of individual completing this form:	- Lace Bases	
Date completed: 07 February 1994		

Date completed: 07 February 1994

Troy Fitzsimmons Park Ranger Hop Brook Lake Route 63 Middlebury, CT 06762 Tel. # (203)729-8840

ERGO

Environmental Review Guide for Operations

PREASSESSMENT ENVIRONMENTAL MANAGEMENT QUESTIONNAIRE

This questionnaire will provide background information necessary to plan and conduct an environmental compliance assessment. References provided in this questionnaire are to assist in answering the questionnaire and are not intended to be all-inclusive. Refer to the Major Activities/Operations Table to determine where activities/operations overlap into several different sections.

Name of Facility: Hancock Brook Lake		
QUESTION/DESCRIPTION	RESPONSE	REFERENCE
SECTION 1, Air Emissions Management:		
1. Does the facility operate steam generating units (fuel burners, central steam plant, hot water boiler, or hot water steam boiler)?	NO	If YES, sec ERGO items 1-4 through 1-7.
2. Does the facility dispense, store, or transfer gasoline?	NO	If YES, see ERGO items 1-8 through 1-13.
Types		C
3. Does the facility have volatile organic compounds (VOCs) (generally, but not exclusively, found in solvents)?	NO	If YES, see ERGO items 1-14 through 1-18.
4. Does the facility burn trash, plant waste, or other solid waste (open burning?	NO	If YES, see ERGO item 1- 19.
5. Does the facility have fugitive emissions from volatile hazardous air pollutant (VHAP) equipment?	NO	If YES, see ERGO items 1- 20 through 1-27.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
6. Does the facility procure CFCs and/or halons?	NO	If YES, see
		ERGO items 1-28 through 1-32.
SECTION 2, Cultural and Historic Resources Management:		
1. Does the facility have any properties under its jurisdiction?	NO	If YES, see ERGO items 2-4 through 2-10.
2. Does the facility have cultural resources? List the facility's cultural resources below:		
	_NO	If YES, see ERGO items 2-11 through 2-15.
Cultural Resource Survey requested for FY95.		
3. Is the facility's master plan or operational management plan (OMP) public document?		
Master Plan submitted for approval in December 1962 was never approved. Exhibit l	YES	If YES, see ERGO item 2-13.
4. Does the facility have an operational project?	NO	If YES, see ERGO item 2- 12.
5. Does the facility have any Native American graves or artifacts, or have any been discovered during an operation?	NO	If YES, see ERGO item 2- 16.
6. Does the facility have an archeological or historical collection?		If YES, see ERGO items 2-17 through 2-28.

RESPONSE REFERENCE

SECTION 3, Hazardous Materials Management:

1. Does the facility store any hazardous materials (e.g., paint, solvents, pesticides)?	NO	If YES, see ERGO items 3-4
Types		through 3-9.
2. Have there been any releases of hazardous substances at the facility?	NO	If YES, see
		ERGO items 3-13 through 3-15.
3. Are there any extremely hazardous substances at the facility?	NO	If YES, see ERGO item 3-16 and 3-17.
4. Does the facility: have extremely hazardous substances in excess of 225 kilograms (kg), 500 pounds (lb), or the threshold planning quantity (see Appendix 3-1); have hazardous chemicals in excess of 4500 kg or 10,000 lb; or fall under Standard Industrial Classification Codes 20 to 39?	_NO	If YES, see ERGO item 3-16 and 3-17.
5. Does the facility store flammable/combustible liquids in lockers, rooms, storage sheds, tanks, or industrial areas?	NO	If YES, see ERGO 3-18 through 3-23 and 3-28 through 3-48.
6. Does the facility have hazardous materials in laboratories?	NO	If YES, see ERGO items 3-24 through 27.
7. Does the facility store compressed gases?	NO	If YES, see ERGO items 3-49 through 3-52.
8. Does facility store acids?	NO	If YES, see ERGO item 3-53

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
9. Does the facility transport hazardous material or offer such materials for transport?		
materials to daisport.	NO	If YES, see ERGO items 3-54 through 3-57.
SECTION 4, Hazardous Waste Management:		
1. Is the facility a generator of hazardous waste?		
Largest amount generated in 1 mo		
	NO	If YES, see ERGO items 4-5 through 4-11.
a. Is the facility a very small quantity generator?		
Project is classified as a "Conditionally Exempt Small Quantity Generator" (CESQG) under CT DEP guidelines.	NO NO	If YES, see ERGO item 4-12 through 4-15.
b. Is the facility a small quantity generator?		***************************************
	NO	If YES, see ERGO items 4-16 through 4-31.
c. Is the facility a large quantity generator?		
	<u>NO</u>	If YES, see ERGO item 4-32 through 4-67.
Complete this section nex	α,	
Any waste that is not excepted, is listed in 40 CFR 261, or exhibits of hazardous waste:	ne or more of the following	characteristics is a
 Ignitability (flash point < 140 °F) Corrosivity (pH < 2 or > 12.5) TCLP Toxicity (for As, Ba, Cd, Cr, Pb, Hg, Se, Ag, and selectivity (or CN). 	lected pesticides)	
The following are hazardous wastes that may typically be found at a G	Corps facility:	
CHECK IF USED AT THIS FACILITY	Vol Gen/mo lb kg	Vol Accum Ib kg
* Solvents		

	Liquid Paint				
	Paint stripper, remover, or thinner	-			
	Spray paint booth air filters	***********			
	Pesticides, Insecticides, Herbicides, etc.		*****		
galantereron hape.	NBC filters and test kits		-	•••••	
	DS2 (diethlene triamine)		-	·	******
APPARATION IN THE PARAMETER AP	STB (super topical bleach)		-		
	Ordnance, ammunition, explosives, and residues	·		Accomplished the	
	Battery acid and caustics (in unserviceable batte	eries)			·
	Some pharmaceuticals				
	POL tank farm fuel system filters				
	Deicing solution				
224	Printing ink, ink solvents, and ink cleaners			,	
	Absorbent materials and soil contaminated with hazardous waste				***************************************
	Other			- And Andrews	******
	Other		*********		
	Other				
	TOTAL	*******			
	Trichlorethane, Methylene, Chloride, Tetrachloreted Fluorocarbons, Toluene, MEK, Break-free in l				hloride
USEPA	Generator Designation: X Unregulated	Small Qty I	Large Qty		
QUESTIO	N/DESCRIPTION	RE	ESPONSE	REFERENCE	
2. Does to States?	he facility export/import hazardous waste from/to	the United	NO	16 200	
			***************************************	If YES, ERGO items	see 4-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
3. Does the facility transport hazardous waste?	_NO	If YES, see ERGO items 4- 68 through 4-72.
4. Does the facility have a treatment, storage, or disposal facility (TSDF)?	NO	If YES, see ERGO items 4-73 through 4-157.
a. Does the TSDF receive waste from a foreign source?	NO	If YES, see ERGO item 4- 129.
b. Does the facility receive waste from offsite sources?	NO	If YES, see ERGO items 4- 128 and 4-131.
c. Does the facility handle ignitable, reactive, or incompatible wastes?	NO	If YES, see ERGO item 4-77 through 4-82.
5. Does the facility have hazardous waste containers?	NO	If YES, see ERGO items 4- 83 through 4-90.
6. Does the facility store hazardous wastes in tanks?	NO	If YES, see ERGO items 4- 91 through 4- 101.
7. Does the facility incinerate hazardous waste?	NO	If YES, see ERGO items 4- 158 through 4- 166.
8. Does the facility have restricted wastes?	NO	If YES, see ERGO items 4- 167 through 4- 176.

RESPONSE REFERENCE

SECTION 5, Natural Resources Management:

Does the facility have any construction projects (or had in previous 5 yr)? NO NO NO NO NO NO NO NO NO N	If YES, see ERGO item 5-4 and 5-5.
2. Does the facility have land management responsibilities? 707 acres of passive recreational, resource management YES and flood control held in fee. 14 acres of easements. Exhibit 2-5.	If YES, see ERGO items 5-7 and 5-8.
3. Does the facility have floodplains or wetlands? There is no official documentation and dilineation YES of wetlands at Hancock. The Reclamation Plan for Abandoned Sand & Gravel Pits provides some. Exhibit 6. 4. Does the facility have forests?	If YES, see ERGO item 5-9.
Hancock Brook Lake Forest Management Plan June 1981. YES Exhibit 7.	If YES, see ERGO item 5-10 and 5-11.
5. Does the facility contain a shoreline? There is no Lakeshore Managment Plan. YES	If YES, see ERGO item 5- 12.
6. Does the facility have endangered or threatened species? There are no federally recognized endangered species. NO Hancock Brook Lake Fish & Wildlife Management Plan June 1981. Exhibit 8-9.	If YES, see ERGO items 5-13 and 5-14.
SECTION 6, Pesticides Management:	
Do facility personnel engage in the application of pesticides? NO NO NO NO NO NO NO NO NO N	If YES; sec ERGQ items 6-7 through 6-16.
2. Does the facility store, mix, or formulate pesticides? NO	If YES, see ERGO items 6- 17 through 6-28.
a. Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	
NO NO	If YES, see ERGO items 6-20 through 6-27.

QUESTION/DESCRIPTION **RESPONSE** REFERENCE 3. Does the facility dispose of pesticides? If YES, NO sec ERGO items 6-29 through 6-33. SECTION 7, Petroleum, Oil, and Lubricant (POL) Management: 1. Does the facility store, transport, or dispense petroleum products? YES. NO If see ERGO items 7-5 through 7-13. 2. Have there been any discharges of oil at the facility? NO YES, see ERGO items 7-14 and 7-15. 3. Does the facility have any belowground or aboveground bulk storage tanks with a capacity more than 660 gallons? NO If YES, see ERGO item 7-17. 4. Does the facility use dikes as a means of containment for petroleum storage tanks? NO YES. If sec ERGO items 7-18 and 7-19. 5. Does the facility have any pipelines? NO If YES. sec

6. Does the facility generate used oil?

ERGO items 7-21 through 7-29.

YES.

ERGO items 7-31 through 7-72.

see

If

NO

RESPONSE REFERENCE

SECTION 8, Solid Waste Management:

SECTION 6, SOLID Waste Management.		
1. Does the facility collect or store solid waste on site?		
Is solid waste collection contracted out? YES There are two contracts for solid waste removal. DACW33-93-M-0952 & DACW33-93-M-0912.	YES	If YES, see ERGO items 8-4 through 8-14.
2. Does the facility recycle and reduce solid waste?		
Types of recycling		**
	NO	If YES, see ERGO item 8-15.
a. Does the facility have more than 100 office workers?		
	NO	If YES, see ERGO item 8-16.
b. Do more than 500 families reside at the facility?	NO.	
	NO.	If YES see ERGO item 8- 17.
c. Does the facility generate waste corrugated containers?	NO	
		If YES, see ERGO item 8-18.
3. Does the facility have land disposal onsite? There has been a history of illegal dumping at the	NO	If YES, sec
project due to its isolated location.	***************************************	ERGO items 8- 19 through 8-33.
a. Does the facility dispose of water treatment plant sludges?	NO	Y.C. 1999.0
		If YES see ERGO 8-20.
b. Does the facility dispose of incinerator or air pollution control		
residues?	NO	If YES, see
		ERGO item 8-21.
c. Does the facility accept special wastes?		V6 V600
	<u>NO</u>	If YES, see ERGO item 8-23.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
4. Does the facility have a closure site?	NO	If YES, see ERGO items 8-34 and 8-35.
5. Does the facility have a new landfill site?	NO	If YES, see ERGO items 8-36 and 8-37.
6. Does the facility handle medical waste?	NO	If YES, see ERGO items 8- 38 and 8-43.
SECTION 9, Special Pollutants Management:		
1. Does the facility have PCBs of any kind?		
Types Quantities	NO	
		If YES, see ERGO items 9-4 through 9-11
2. Does the facility have PCB transformers?	NO	If YES, see ERGO items 9- 12 through 9-19.
3. Has the facility had a PCB spill?	NO	If YES, sec ERGO item 9-20 through 9-22.
4. Does the facility have PCB Items (PCB-contaminated heat transfer or hydraulic systems, electromagnets, switches, voltage regulators,		
capacitors, circuit breakers, reclosers, or cables)?	NO 	If YES, see ERGO items 9-23 through 9-26.
5. Does the facility use PCBs in research?	NO	If YES, see ERGO item 9-
		1 1

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
6. Does the facility store PCBs?	NO	If YES, see ERGO items 9-28 through 9-32.
7. Does the facility transport PCBs or PCB Items?	NO	If YES, see ERGO items 9-33 and 9-34.
8. Does the facility dispose of PCBs or PCB Items?	NO	If YES, see ERGO items 9-35 through 9-46.
9. Does the facility demolish, renovate, or strip components from structures containing friable asbestos?		
Is sampling done?		
Current concerns?		
	NO	If YES, see ERGO items 9-48 through 9-57.
10. Does the facility dispose of, or transport for disposal, asbestos or asbestos-containing waste?	NO	If YES, see ERGO items 9- 58 through 9-61.
11. Is the facility located in an area with a potential radon problem?	NO	If YES, see ERGO items 9- 62 through 9-64.
12. Does the facility have any possible sources of noise pollution or have a noise hazardous area?	NO	If YES, see ERGO items 9- 65 and 9-66.
SECTION 10, Underground Storage Tanks (USTs) Management:		
1. Does the facility have organizational fuel tanks, or USTs?	. NO	If YES, see ERGO item 10- 5.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
2. Does the facility fill tanks?	NO	If YES, see
		ERGO item 10-7 and 10-8.
3. Has the facility repaired, or is it planning to repair, a UST?	NO	If YES, see ERGO item 10-9 and 10-10.
4. Do USTs have release detection?	NO	If YES, see ERGO items 10-11 through 10-18.
5. Does the facility have hazardous substance USTs?		
3. 2000 the Many have hazardous substance ou io.	NO	If YES, see ERGO item 10- 19.
6. Does the facility have a deferred UST?	ÑŌ	If VEC
	TAO	If YES, see ERGO item 10-20.
7. Does the facility have a metallic UST?	NO	If YES, see
	understanderstander	ERGO items 10-23.
8. Does the facility have new or upgraded USTs (i.e., after May 1986)?	NO	If YES, see
		ERGO items 10-24 through 10-26.
9. Have the facility USTs undergone a change of service or a closure?	NO	If YES, see
	•••••	ERGO items 10-27 through 10-33.
10. Does the facility have substandard USTs?	NO	If YES, see
		ERGO item 10-34.

RESPONSE REFERENCE

SECTION 11, Wastewater Management:

1. Does the facility have any point source discharges	or
domestic sewage treatment plants?	

NO If YES, see ERGO items 11-5 through 11-9.

2. Does the facility have stormwater discharge not covered by a NPDES permit?

NO If YES, see ERGO item 11-10.

3. Does the facility discharge to a publically-owned treatment works (POTW)?

NO If YES, see ERGO items 11-11 through 11-13.

4. Does the facility have any personnel engaged in the operation of water pollution control devices?

NO If YES, see ERGO items 11-14 through 11-16.

5. Does the facility have electroplating operations?

NO If YES, see ERGO item 11-17 through 11-28.

6. Does the facility conduct or issue permits for dredging operations?

NO If YES, see ERGO items 11-29 through 11-36.

SECTION 12, Water Quality Management:

1. Does the facility perform contaminant monitoring on its water supply?

NO If YES, see ERGO items 12-11 through 12-36.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
2. Does the facility provide disinfection/filtration for water?	<u>NO</u>	If YES, see ERGO items 12-37 through 12-45.
3. Is the facility located near a sole source aquifer?	NO	If YES, see ERGO item 12- 55.
4. Does the facility use surface water or groundwater under the influence of surface water for drinking water?		
	NO	If YES, see ERGO items 12-46 through 12-48.
5. Does the facility have recreational potable water sources?	NO	If YES, see ERGO item 12- 56.
6. Does the facility have swimming beaches?	NO	If YES, see ERGO item 12- 57.
7. Does the facility have swimming pools?	NO	If YES, see ERGO item 12- 58.
8. Is the facility authorized to provide emergency drinking water?	NO	If YES, see ERGO item 12- 59.
SECTION 13, Floating Plant Management:		
Does the facility have or operate any floating plant?	NO	If YES, see ERGO items 13-1 through 13-46.
Signature of individual completing this form: 27 January 1994 Troy Fitzsimmons Park Ranger Hop Brook Lake	in the second	
Middlebury, CT 06762		

ERGO

Environmental Review Guide for Operations

PREASSESSMENT ENVIRONMENTAL MANAGEMENT QUESTIONNAIRE

This questionnaire will provide background information necessary to plan and conduct an environmental compliance assessment. References provided in this questionnaire are to assist in answering the questionnaire and are not intended to be all-inclusive. Refer to the Major Activities/Operations Table to determine where activities/operations overlap into several different sections.

Name of Facility: Stamford Hurricane Barrier				
QUESTION/DESCRIPTION	RESPONSE	REFERENCE		
SECTION 1, Air Emissions Management:				
 Does the facility operate steam generating units (fuel burners, central steam plant, hot water boiler, or hot water steam boiler)? One oil burning furnace on west side of navigation gate. One oil burning furnace on east side of navigation gate. 	NO	If YES, see ERGO items 1-4 through 1-7.		
2. Does the facility dispense, store, or transfer gasoline? Project purchases gasoline in small quantities locally in safety cans and stores in fire proof locker.	n <u>YES</u>	If YES, see ERGO items 1-8 through 1-13.		
Types <u>gasoline</u>				
3. Does the facility have volatile organic compounds (VOCs) (generally, but not exclusively, found in solvents)?	NO	If YES, see ERGO items 1- 14 through 1-18.		
4. Does the facility burn trash, plant waste, or other solid waste (open				
burning?	NO.	If YES, see ERGO item 1- 19.		
5. Does the facility have fugitive emissions from volatile hazardous air pollutant (VHAP) equipment?	NO	If YES, see ERGO items 1		
		20 through 1-27		

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
6. Does the facility procure CFCs and/or halons?	NO	If YES, see ERGO items 1-28 through 1-32.
SECTION 2, Cultural and Historic Resources Management:		
 Does the facility have any properties under its jurisdiction? There was no archeological survey completed. 	_NO	If YES, see ERGO items 2-4 through 2-10.
2. Does the facility have cultural resources? List the facility's cultural resources below:	NO	If YES, see ERGO items 2-11 through 2-15.
3. Is the facility's master plan or operational management plan (OMP) public document? OMP scheduled for completion by FY95.	NO	If YES . see
OMP scheduled for completion by 1199.		ERGO item 2- 13.
4. Does the facility have an operational project? Exhibit 1.	YES	If YES, see ERGO item 2- 12.
5. Does the facility have any Native American graves or artifacts, or have any been discovered during an operation?	NO	If YES, sec ERGO item 2- 16.
6. Does the facility have an archeological or historical collection?	NO	If YES, see ERGO items 2-17 through 2-28.

RESPONSE REFERENCE QUESTION/DESCRIPTION SECTION 3, Hazardous Materials Management: 1. Does the facility store any hazardous materials (e.g., paint, solvents, pesticides)? YES If YES. see ERGO items 3-4 through 3-9. Types paints, solvents, lubricating oils and grease 2. Have there been any releases of hazardous substances at the facility? NO YES, If see ERGO items 3-13 through 3-15. 3. Are there any extremely hazardous substances at the facility? NO YES. see ERGO item 3-16 and 3-17. 4. Does the facility: have extremely hazardous substances in excess of 225 kilograms (kg), 500 pounds (lb), or the threshold planning quantity (see Appendix 3-1); have hazardous chemicals in excess of 4500 kg or 10,000 lb; or fall under Standard Industrial Classification Codes 20 to 39? NO YES. see ERGO item 3-16 and 3-17. 5. Does the facility store flammable/combustible liquids in lockers, rooms, storage sheds, tanks, or industrial areas? YES Gasoline in safety cans, paints and solvents. YES, If see **ERGO** 3-18 through 3-23 and 3-28 through 3-48. 6. Does the facility have hazardous materials in laboratories? NO YES. ERGO items 3-24 through 27. 7. Does the facility store compressed gases? YES Nitrogen gas for tide gauges. YES. see ERGO items 3-

8. Does facility store acids?

49 through 3-52.

YES.

53.

ERGO item 3-

see

NO

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
9. Does the facility transport hazardous material o. offer such materials for transport?		
All hazardous material disposal is handled through licensed contractors.	NO	If YES, see ERGO items 3-54 through 3-57.
SECTION 4, Hazardous Waste Management:		
1. Is the facility a generator of hazardous waste?		
Largest amount generated in 1 mo		If YES, see ERGO items 4-5 through 4-11.
a. Is the facility a very small quantity generator?		**************************************
	NO	If YES, see ERGO item 4-12 through 4-15.
b. Is the facility a small quantity generator?	NO	If YES, see
	140	ERGO items 4-16 through 4-31.
c. Is the facility a large quantity generator?		Y6 - X1700
	<u>NO</u>	If YES, see ERGO item 4-32
		through 4-67.
Complete this section next.		
Any waste that is not excepted, is listed in 40 CFR 261, or exhibits one or r hazardous waste:	more of the following	characteristics is a
 Ignitability (flash point < 140 °F) Corrosivity (pH < 2 or > 12.5) TCLP Toxicity (for As, Ba, Cd, Cr, Pb, Hg, Se, Ag, and selected Reactivity (or CN). 	pesticides)	
The following are hazardous wastes that may typically be found at a Corps	facility:	
CHECK IF USED AT THIS FACILITY V lb	ol Gen/mo kg	Vol Accum Ib kg
x * Solvents		

<u>X</u>	Liquid Paint	••••			
X	Paint stripper, remover, or thinner				<u></u>
	Spray paint booth air filters		-		
Artestatures	Pesticides, Insecticides, Herbicides, etc.		***************************************	*******	-
	NBC filters and test kits	*******			
(fernomental de s	DS2 (diethlene triamine)				
	STB (super topical bleach)	**************************************		***************************************	+
	Ordnance, ammunition, explosives, and residues	*******	*******	······	
X	Battery acid and caustics (in unserviceable batteries)	******		·	*******
******	Some pharmaceuticals			###\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
·	POL tank farm fuel system filters	***********			
	Deicing solution	, managas			
<u>X</u>	Printing ink, ink solvents, and ink cleaners			*********	******
	Absorbent materials and soil contaminated with hazardous waste		·	· .	
X	Other lithium grease	***************************************	~~~	***************************************	
X	Other lubricating oils			· · · · · · · · · · · · · · · · · · ·	
************	Other	*********	***************************************	***********	
	TOTAL	*********			<u></u>
	Trichlorethane, Methylene, Chloride, Tetrachloroethy ted Fluorocarbons. Toluene, MEK, Break-free in liquid				hloride.
USEPA	Generator Designation: X Unregulated Sm	all Qry L	arge Qty		
QUESTIO	N/DESCRIPTION	RE	SPONSE	REFERENCE	
	he facility export/import hazardous waste from/to the U	Inited			
States?		-	NO	If YES. ERGO items	see 4-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
3. Does the facility transport hazardous waste? All hazardous waste removal is contracted out to licensed companies.	NO	If YES, see ERGO items 4-68 through 4-72.
4. Does the facility have a treatment, storage, or disposal facility (TSDF)?	<u>NO</u>	If YES, see ERGO items 4-73 through 4-157.
a. Does the TSDF receive waste from a foreign source?	NO	If YES, see ERGO item 4- 129.
b. Does the facility receive waste from offsite sources?	NO	If YES, see ERGO items 4- 128 and 4-131.
c. Does the facility handle ignitable, reactive, or incompatible wastes?	NO	If YES, see ERGO item 4-77 through 4-82.
5. Does the facility have hazardous waste containers? Two 20 gal. hazardous waste disposal drums which comply with DOT 21C E7768.	YES	If YES, see ERGO items 4-83 through 4-90.
6. Does the facility store hazardous wastes in tanks?	NO	If YES, see ERGO items 4-91 through 4-101.
7. Does the facility incinerate hazardous waste?	NO	If YES, see ERGO items 4-158 through 4-166.
8. Does the facility have restricted wastes?	NO	If YES, see ERGO items 4- 167 through 4- 176.

YES,

ERGO items 6-20 through 6-27.

see

If

NO____

QUESTION/DESCRIPTION

SECTION 5, Natural Resources Management:

1. Does the facility have any construction projects (or had in previous 5 yr)? Replacement of fender system in FY93. 2. Does the facility have land management responsibilities? The project consists of series of dikes and flood walls XES with 4 pumping station and navigation gate. Exhibit 3. 3. Does the facility have floodplains or wetlands? Encroachment into once flooded areas has occured with construction of the project. Exhibit 4. 4. Does the facility have forests? NO. If YES, see ERGO items 5-10 and 5-11. 5. Does the facility contain a shoreline? Exhibit 1. YES If YES, see ERGO items 5-10 and 5-11. NO. If YES, see ERGO items 5-10 and 5-11. SECTION 6, Pesticides Management: 1. Do facility personnel engage in the application of pesticides? No pesticides are applied by Corps personnel or contractors. NO. If YES, see ERGO items 6-7 through 6-16. 2. Does the facility store, mix, or formulate pesticides? NO. If YES, see ERGO items 6-7 through 6-16. NO. If YES, see ERGO items 6-7 through 6-28. A Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?				
The project consists of series of dikes and flood walls YES with 4 pumping station and navigation gate. Exhibit 3. If YES, see ERGO items 5-7 and 5-8. 3. Does the facility have floodplains or wetlands? Encroachment into once flooded areas has occured with NO If YES, see ERGO item 5-9. 4. Does the facility have forests? NO If YES, see ERGO item 5-10 and 5-11. 5. Does the facility contain a shoreline? Exhibit 1. YES See ERGO item 5-10 and 5-11. If YES, see ERGO item 5-10 and 5-11. SECTION 6, Pesticides Management: 1. Do facility personnel engage in the application of pesticides? No pesticides are applied by Corps personnel or contractors. SECTION 6, Pesticides Management: 2. Does the facility store, mix, or formulate pesticides? NO If YES, see ERGO items 6-7 through 6-16. 2. Does the facility store, mix, or formulate pesticides? NO If YES, see ERGO items 6-17 through 6-28. a. Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	1.		YES	ERGO item 5-4
Encroachment into once flooded areas has occured with NO If YES, see ERGO item 5-9. 4. Does the facility have forests? NO If YES, see ERGO item 5-9. 5. Does the facility contain a shoreline? Exhibit 1. YES If YES, see ERGO item 5-10 and 5-11. 6. Does the facility have endangered or threatened species? NO If YES, see ERGO item 5-12. NO If YES, see ERGO item 5-12. NO If YES, see ERGO items 5-13 and 5-14. SECTION 6, Pesticides Management: 1. Do facility personnel engage in the application of pesticides? No pesticides are applied by Corps personnel or contractors. NO If YES, see ERGO items 6-7 through 6-16. 2. Does the facility store, mix, or formulate pesticides? NO If YES, see ERGO items 6-7 through 6-16. A Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	2.	The project consists of series of dikes and flood walls	YES	ERGO items 5-7
NO. If YES, see ERGO item 5-10 and 5-11. 5. Does the facility contain a shoreline? Exhibit 1. YES. If YES, see ERGO item 5-12. 6. Does the facility have endangered or threatened species? NO. If YES, see ERGO item 5-12. NO. If YES, see ERGO items 5-13 and 5-14. SECTION 6, Pesticides Management: 1. Do facility personnel engage in the application of pesticides? No pesticides are applied by Corps personnel or contractors. NO. If YES, see ERGO items 6-7 through 6-16. 2. Does the facility store, mix, or formulate pesticides? NO. If YES, see ERGO items 6-17 through 6-28. a. Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	3.	Encroachment into once flooded areas has occured with	_NO	
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a. Does the facility store/use pesticides classified highly toxic or moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	1.	No pesticides are applied by Corps personnel or	<u>NO</u>	ERGO items 6-7
moderately toxic (bearing DANGER, POISON, WARNING, or the skull and crossbones symbol)?	2.	Does the facility store, mix, or formulate pesticides?	<u>NO</u>	ERGO items 6-
	mo	oderately toxic (bearing DANGER, POISON, WARNING, or the skull and		If VES son

YES.

ERGO items 7-21 through 7-29.

YES,

ERGO items 7-31 through 7-72.

see

see

If

NO

YES

5. Does the facility have any pipelines?

6. Does the facility generate used oil?

Various used oils are produced.

QUESTION/DESCRIPTION

RESPONSE REFERENCE

23.

SECTION 8, Solid Waste Management:		
1. Does the facility collect or store solid waste on site?		
Is solid waste collection contracted out? $\underline{ \ \ \ \ \ \ \ \ }$ Limited solid waste is produced and disposed of at the Hop Brook Lake Project Office.	YES	If YES, see ERGO items 8-4 through 8-14.
2. Does the facility recycle and reduce solid waste?		
Cardboard Types of recycling		
	YES	If YES, see ERGO item 8- 15.
a. Does the facility have more than 100 office workers?		
	_NO	If YES, see ERGO item 8-16.
b. Do more than 500 families reside at the facility?		
	NQ	If YES, see ERGO item 8- 17.
c. Does the facility generate waste corrugated containers?		
Recycled.	_YES_	If YES, see ERGO item 8- 18.
3. Does the facility have land disposal onsite?		
	_NO	If YES, see ERGO items 8-19 through 8-33.
a. Does the facility dispose of water treatment plant sludges?	٠	
	_NO	If YES see ERGO 8-20.
b. Does the facility dispose of incinerator or air pollution control		
residues?	NO	If YES, see
		ERGO item 8-21.
c. Does the facility accept special wastes?	NO	If YES, see
	***************************************	If YES, see FRGO item 8-

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
4. Does the facility have a closure site?	NO	If YES. see ERGO items 8-34 and 8-35.
5. Does the facility have a new landfill site?	NO	If YES, see ERGO items 8-36 and 8-37.
6. Does the facility handle medical waste?	NO	If YES, see ERGO items 8- 38 and 8-43.
SECTION 9, Special Pollutants Management:		
1. Does the facility have PCBs of any kind?		
Types		
Quantities		
	NO .	If YES, see ERGO items 9-4 through 9-11.
2. Does the facility have PCB transformers?	NO	If YES, see ERGO items 9-12 through 9-19.
3. Has the facility had a PCB spill?	NO	If YES, sec ERGO item 9-20 through 9-22.
4. Does the facility have PCB Items (PCB-contaminated heat transfer or hydraulic systems, electromagnets, switches, voltage regulators, capacitors, circuit breakers, reclosers, or cables)?		
oupliestors, vacuum oromotos, roomotos, or outlies,	<u>NO</u>	If YES, see ERGO items 9-23 through 9-26.
5. Does the facility use PCBs in research?	NO	If YES, sec ERGO item 9- 27.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
6. Does the facility store PCBs?		
	NO	If YES, see ERGO items 9-28 through 9-32.
7. Does the facility transport PCBs or PCB Items?	NO.	
	NO	If YES, see ERGO items 9-33 and 9-34.
8. Does the facility dispose of PCBs or PCB Items?		
	NO	If YES, see ERGO items 9-35 through 9-46.
9. Does the facility demolish, renovate, or strip components from structures containing friable asbestos?		
Is sampling done? <u>USACE</u> Environmental Lab		
Current concerns? <u>potential asbestos brake</u> pads		
Brake pads for navigation gate motors were installed in 1968.	NO	If YES, see ERGO items 9- 48 through 9-57.
10. Does the facility dispose of, or transport for disposal, asbestos or asbestos-containing waste?		
	<u> </u>	If YES, see ERGO items 9-58 through 9-61.
11. Is the facility located in an area with a potential radon problem?		•
	NO	If YES, see ERGO items 9- 62 through 9-64.
12. Does the facility have any possible sources of noise pollution or have a noise hazardous area?		
Various mechanical apparatuses cause excessive noise. All personnel have ear protection available.	YES	If YES, see ERGO items 9-65 and 9-66.
SECTION 10, Underground Storage Tanks (USTs) Management:		
1. Does the facility have organizational fuel tanks, or USTs? UST for fuel oil removed FY94 and replace with AST. Exhibit 5.	NO	If YES, see ERGO item 10-5.

QUESTION/DESCRIPTION	RESPONSE	REFERENCE
	1001 01 101	ROLLING, VED
2. Does the facility fill tanks?	NO	If YES, see ERGO item 10-7 and 10-8.
3. Has the facility repaired, or is it planning to repair, a UST?	NO	If YES, see ERGO item 10-9 and 10-10.
4. Do USTs have release detection?	NO	If YES, see ERGO items 10-11 through 10-18.
5. Does the facility have hazardous substance USTs?	NO	If YES, see ERGO item 10-19.
6. Does the facility have a deferred UST?	NO	If YES, see ERGO item 10-20.
7. Does the facility have a metallic UST?	NO	If YES, see ERGO items 10-23.
8. Does the facility have new or upgraded USTs (i.e., after May 1986)?	NO	If YES, see ERGO items 10-24 through 10-26.
9. Have the facility USTs undergone a change of service or a closure?	NO	If YES, see ERGO items 10-27 through 10-33.
10. Does the facility have substandard USTs?	NO	If YES, see ERGO item 10-34.

QUESTION/DESCRIPTION

RESPONSE REFERENCE

SECTION 11, Wastewater Management:

1. Does the facility have any	point source discharges or
domestic sewage treatment	plants?

If YES, see ERGO items
11-5 through
11-9.

2. Does the facility have stormwater discharge not covered by a NPDES permit?

NO If YES, see ERGO item 11-10.

3. Does the facility discharge to a publically-owned treatment works (POTW)?

NO If YES, see ERGO items 11-11 through 11-13.

4. Does the facility have any personnel engaged in the operation of water pollution control devices?

NO If YES, see ERGO items 11-14 through 11-16.

5. Does the facility have electroplating operations?

NO If YES, see ERGO item 11-17 through 11-28.

6. Does the facility conduct or issue permits for dredging operations? Dredging of sediment deposits in navigation gate channel are scheduled for FY94. Contract DACW33-85-C-0006. Exhibit 6.

YES If YES, see ERGO items 11-29 through 11-36.

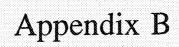
SECTION 12, Water Quality Management:

Does the facility perform contaminant monitoring on its water supply?
 Water provided by the City of Stamford.

NO If YES, see ERGO items 12-11 through 12-36.

QUESTION/DESCRIPTION		RESPONSE	REFERENCE
2. Does the facility provide disinfection/filtration	on for water?	NO	If YES, see ERGO items 12-37 through 12-45.
3. Is the facility located near a sole source aqu	ifer?	NO	If YES, see ERGO item 12- 55.
4. Does the facility use surface water or ground surface water for drinking water?	dwater under the influence of		
		_NO	If YES, see ERGO items 12-46 through 12-48.
5. Does the facility have recreational potable v	vater sources?	NO	If YES, see ERGO item 12- 56.
6. Does the facility have swimming beaches?		NO	If YES, see ERGO item 12- 57.
7. Does the facility have swimming pools?		_NO	If YES, see ERGO item 12- 58.
8. Is the facility authorized to provide emerger	ncy drinking water?	NO	If YES, see ERGO item 12- 59.
SECTION 13, Floating Plant Management:			
1. Does the facility have or operate any floating	ng plant?	NO	If YES, see ERGO items 13-1 through 13-46.
Signature of individual completing this form: Date completed:	09 February 1994 Troy Fitzsimmons		
	Park Ranger Hop Brook Lake Route 63		

Middlebury, CT 06762 (203)729-8840



MEMORANDUM FOR NED Executive Staff

SUBJECT: NED Environmental Compliance Coordinator

- 1. In January 1991, John Elmore, Chief, Operations, Construction and Readiness Division, directed division and district operations offices to formally designate Environmental Compliance Coordinators (ECC's). The Director of Operations designated Bruce Williams, Project Operations and Readiness Division as the New England Division ECC.
- 2. In a follow-up memo dated 31 March 1992, The Director of Civil Works expanded the role of the Environmental Compliance Coordinators to be utilized as division or district environmental coordinators. This is a coordination, as opposed to an operative assignment. The ECC's will support rather than assume environmental compliance responsibilities of the various functional elements (Planning, Engineering, Project Program Management, Logistics, Safety and Occupational Health, and Real Estate, etc.).
- 3. The Corps of Engineer objective is to develop and maintain a comprehensive and consistent environmental compliance program utilizing the existing Operations "stovepipe", since Operations is responsible for the majority of Corps facilities. In the future, the ECC should be included in the review process of programs or projects that involve environmental compliance as part of the construction, operation or maintenance activities at Corps owned or operated facilities and projects.
- 4. As a part of the USACE Facilities Environmental Compliance Program, the Director of Civil Works recommended that Commanders should also establish and chair an interdisciplinary Environmental Compliance Steering Committee with representatives from the various affected offices throughout NED. Rather than develop parallel organizations performing the same function, I am tasking the NED Executive Staff to serve an additional function as the Environmental Compliance Steering Committee. The Director of Operations will provide direction and oversight to the ECC and overall coordination with NED Executive Staff.

JAMES K. HUGHES

LTC, EN Commanding

cf:
Distribution "A"
Bruce Williams ECC



U.S. Army Corps of Engineers WASHINGTON, D.C. 20314-1000

REPLY TO ATTENTION OF:

2 MAK 1992

S: 31 March 1992

CECW-OA

MEMORANDUM FOR COMMANDERS, ALL MAJOR SUBORDINATE COMMANDS, DISTRICT COMMANDS, AND LABORATORIES

SUBJECT: USACE Facilities Environmental Compliance

- 1. In June 1991, Lieutenant General H. J. Hatch, Chief of Engineers, assigned me the mission of assuring that all USACE facilities and associated lands meet environmental standards contained in relevant Federal, DoD, Army, state, and local laws and regulations. In an effort to ensure USACE facilities environmental compliance, commanders are directed to initiate an environmental assessment/deficiency correction program for all Corps property utilizing the Environmental Review Guide for Operations (ERGO). Our overall goal is to complete environmental assessments and develop corrective action plans at all Corps projects and facilities by the end of FY94.
- 2. ERGO is a checklist of environmental laws and regulations, good management practices, and risk management issues. ERGO was designed as a self assessment tool, but can also be used for formal, or external assessments. Project and facility managers, with technical assistance from district elements, state authorities or private sector contractors, can use ERGO to determine if their operations are being conducted in accordance with environmental laws and regulations. ERGO assessments are a proactive approach to environmental compliance and protection. Findings identified in ERGO assessments should be prioritized and remediation measures performed as routine maintenance work or programmed in the budget process.
- 3. Civil Works Operations elements are already implementing ERGO, with a goal of completing ERGO assessments at 25 percent of Corps O&M General funded operating projects and facilities this FY. I now ask that you schedule and conduct ERGO assessments at facilities and projects operated with other than O&M General funds (e.g. Mississsippi River and Tributaries funded projects, district motor pools, regional warehouses, Corps operated printing plants and photo labs, etc.).
- 4. ERGO was initially developed for use at operating projects. Since we are now expanding its application, you may find that some refinement is required to thoroughly assess facilities not considered when preparing the current manual. Contact Dr. Diane Mann of CERL-ENM at (217) 373-6741, for help in dealing with facilities and regulations not currently covered in the manual.

Recommendations for improving the checklist can be directed to Dr. Mann at Department of the Army, Construction Engineering Research Laboratory, Corps of Engineers, P.O. Box 9005, Champaign, Illinois 61826-9005. From efficiency and comparative standpoints we are committed to using a single environmental compliance protocol throughout USACE.

- 5. I encourage all elements to take a teamwork approach, using existing expertise, rather than developing parallel organizations performing the same function, to initiate, develop, and maintain environmental compliance and assurance at all USACE operated and funded projects, facilities, and activities. This teamwork approach will minimize duplicating effort and assessment costs. Commanders, if they have not already done so, should also establish and chair an interdisciplinary Environmental Compliance Steering Committee with representatives from the various affected offices throughout your organization. The steering committee will provide direction and oversight.
- 6. In January 1991, John Elmore, Chief, Operations, Construction and Readiness Division, directed division and district operations offices to formally designate Environmental Compliance Coordinators (ECCs). Hereafter, these coordinators will be utilized as division or district environmental compliance coordinators. This is a coordination, as opposed to an operative, assignment. The ECCs will support rather than assume environmental compliance responsibilities of the various functional elements (Planning, Engineering, Project Program Management, Logistics, Safety and Occupation Health, and Real Estate). Our objective is to develop and maintain a comprehensive and consistent environmental compliance program, utilizing the existing Operations "stovepipe", since Operations is responsible for the majority of USACE facilities.
- 7. We will distribute revised ERGO manuals and follow on compliance materials to each currently designated division and district ECC for dissemination to offices involved in environmental compliance throughout your organization. If there are any updates to the current list of ECCs, please forward their name, office symbol, FTS and commercial telephone numbers, Fax number, and Corps Mail I.D. to CECW-OA, ATTN: Jim Wolcott, by 31 March 1992. Field Operating Activities and Laboratories should also designate and provide information on ECCs.

FOR THE COMMANDER:

ARTHUR E. WILLIAMS Major General, USA

Goth Elville

Director of Civil Works



U.S. Army Coms of Engineers WASHINGTON, D.C. 20314-1000

Q & NOV 1991

CECW-ON (1130-2-2)

MEMORANDUM FOR COMMANDERS, ALL MAJOR SUBORDINATE COMMANDS, DISTRICT COMMANDS, FIELD OPERATING ACTIVITIES AND LABORATORIES

SUBJECT: USACE Facilities Environmental Compliance Program (Internal)

- 1. I recently reassigned the mission of assuring that all USACE facilities and associated lands meet environmental standards contained in relevant Federal, DoD, Army, state, and local laws and regulations to the Director of Civil Works. This action is in response to your comments regarding implementing an environmental compliance initiative within USACE.
- 2. Program oversight will be provided by a steering committee chaired by the Deputy Director of Civil Works, with Logistics, Military Programs, Office of Counsel, Real Estate, Research and Development, Safety and Occupational Health and the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) represented. An Environmental Compliance Branch within Operations, Construction and Readiness Division will develop, coordinate, and manage the program. Civil Works will provide further details as the USACE Facilities Environmental Compliance Program unfolds.
- 3. The Corps has an ethical and legal obligation to protect our environment through prevention, compliance, restoration and stewardship. We are counting on your support and enthusiasm, coupled with the evolving USACE Facilities Environmental Compliance Program, to demonstrate our commitment to, and capabilities in, environmental protection.

H. J. HATCH

Lieutenant General, USA

Commanding



U.S. Army Corps of Engineers WASHINGTON, D.C. 20314-1000

REPLY TO ATTENTION OF:

S: 15 February 1991

CECW-ON

MEMORANDUM FOR MAJOR SUBORDINATE COMMANDS AND DISTRICT COMMANDS

SUBJECT: Environmental Review Guide for Operations (ERGO)

- I am enclosing the Environmental Review Guide for Operations (ERGO), a checklist for analyzing compliance with environmental laws and regulations at our operating projects. Copies are being sent to all District Operations offices for distribution to projects. We are releasing ERGO as a test document for use during the remainder of FY 91. An implementation workshop is in the planning stage. Specifics will be provided later.
- 2. Lieutenant General Hatch, in his 14 February 1990 letter, "Strategic Direction for Environmental Engineering", echoed Secretary Cheney's call for DOD to be the "Federal leader in environmental compliance and protection." ERGO is a pro-active approach to compliance.
- The Construction Engineering Research Laboratory developed ERGO. A steering committee with Division, District and project members from Operations elements provided guidance and direction. Their goal was to produce a self-assessment tool for managers of operating projects with District teams, State agencies, contractors and the United States Army Toxic and Hazardous Waste Agency as potential sources of support.
- 4. Environmental compliance is a legal and ethical responsibility, an integral part of doing business. I ask that you apply ERGO at one or more projects in each District this FY.
- 5. We will need feedback to update ERGO for full implementation in FY 92. Every Division and District Operations office should formally designate an environmental compliance coordinator. These individuals will be our POCs regarding ERGO and other environmental matters. They will act as liaisons with the various functional areas within Operations organizations, and with POCs from other elements with environmental responsibilities. Please forward the names, office symbols, and telephone numbers of your Division and District environmental compliance coordinators to CECW-ON, ATTN: Jim Wolcott by 15 February 1991.

FOR THE DIRECTOR OF CIVIL WORKS:

Chief, Operations, Construction and

Readiness Division



U.S. Army Corps of Engineers WASHINGTON, D.C. 20314-1000

24 CEC 1991

REPLY TO ATTENTION OF:

W611610 anuary 11992

CECW-ON

MEMORANDUM FOR MAJOR SUBORDINATE COMMANDS

SUBJECT: FY 92 Environmental Assessments at Operating Projects

- 1. As managers of over 400 water resources projects and stewards of 11.7 million acres of land and water, we individually and corporately have an ethical and legal responsibility to protect the environment. Your positive response to the Environmental Review Guide for Operations (ERGO) we distributed last January is appreciated. We are now ready to proceed with an organization-wide series of ERGO assessments. The FY 92 target is to complete ERGO assessments at 25 percent of our OEM General funded operating projects and facilities. The remainder will be assessed within the following two works and confidence of facilities and order than organization by separate memorandum.
- 2. As an indication of the importance of this effort, we are providing dedicated O&M funding from headquarters to insure that these assessments are completed. Enclosed is a list of funds available for allocation to each division. These funds are for conducting assessments and converting findings into corrective action plans. Corrective actions are to be implemented through routine budgeting and reprogramming procedures. We ask that you respond with a list of projects, by district, at which ERGO evaluations will be conducted in FY 92, and the portion of your division's total allocation we should distribute to each project on your list. Include the CWIS number with each project you identify. Please respond to Denise White of our Natural Resources Management Branch (CECW-ON) by 10 January 1992.
- 3. In selecting projects and facilities for FY 92 assessments, we recommend that you concentrate on locations having the greatest potential for significant compliance shortfalls. When evaluating projects, evaluate all functions (hydropower, recreation, etc.) at the same time, to obtain comprehensive project assessments and action plans.
- 4. Our overall FY 92 hudget for ERGO assessments is based on an estimated average cost of \$13K per project. To contain costs, use ERGO in conjunction with the representative sampling techniques presented at the Kansas City and Dallas ERGO orientation sessions.

JECW-ON SUBJECT: FY 92 Environmental Assessments at Operating Projects

Contact Dr. Diane Mann of Construction Engineering Research Laboratory (CERL) at 217-373-6741 for help in designing representative sampling formats.

- 5. ERGO was developed as a self-assessment tool for managers of operating projects, with district teams, state agencies, and contractors as potential sources of support. Because of the complexity of the laws and regulations, several respondents from the FY 91 effort commented on the benefits of inter disciplinary teams, including representation from offices such as Engineering, Logistics, Planning, Real Estate, and Safety and Occupational Health. While we are not specifying the way this first round of assessments is to be conducted, we are requiring the involvement, to the extent possible, of personnel from the project of facility being assessed to maximize training benefits. We are also emphasizing quality products that will withstand independent scrutiny.
- 6. Real Estate is responsible for reviewing user compliance with real estate instrument provisions, and reviewing environmental compliance clauses in such outgrants. ERGO is designed to apply to operating projects and facilities, including outgrants. We understand that in some locations the concept of applying ERGO to outgrants and concessions is surfacing unanticipated issues. Outgrant related issues will be addressed at the joint feal Estate/Natural Resources Meeting scheduled for January 1992. Please be sure that your representatives come to that meeting with complete and current information, both positive and negative. More specific guidance will be issued following that meeting.
- 7. In January 1992, we will distribute an updated ERGO manual reflecting FY 91 user feedback and incorporating new and revised laws and regulations. As you proceed with ERGO assessments in FY 92, it is especially important that you record "lessons learned" and track costs per assessment, including report and action plan development costs.
- 8. In support of our commitment to promote environmental compliance at all levels and functions, we have tasked CERL with developing and conducting ERGO orientation programs at our districts during the FY 92/93 time frame. A video based ERGO training course has also been approved for development by Huntsville Division. Additional information will be provided as these projects progress.

CECW-ON SUBJECT: FY 92 Environmental Assessments at Operating Projects

mental compliance program and your comments and recommendations are welcome at any time. They can be directed to Denise Whate at 202-272-0794.

FOR THE DIRECTOR OF CIVIL WORKS:

Encl

ELMORE, P.E.

Chief, Operations, Construction and Readiness Division Directorate of Civil Works

ENVIRONMENTAL REVIEW GUIDE FOR OPERATIONS (ERC) FISCAL YEAR 92 BUDGET DISTRIBUTION

The following is a listing of funding distribution in thousands of dollars to division offices for performing ERGO assessments. NOTE: Construction General (CG) and Mississippi River and Tributaries (MR&T) funded projects were not considered.

Division	Amount
LMD	145.0
MRD	105.0
NAD	95.0
NCD	210.0
NED	105.0
NPD	130.0
ORD	455.0
SAD	185.0
SPD	65.0
SWD	430.0
TOTAL	1,925.0



U.S. ARMY CORPS OF ENGINEERS KINGMAN BUILDING FORT BELVOIR, VA 22060 --

ATTEMEDION OF

CEIG-I (20-1g)

17 DEC 1991

MEMORANDUM FOR ALL DISTRICT AND DIVISION COMMANDERS

SUBJECT: Environmental Compliance Concerns Within USACE

- 1. Earlier this year my office completed a systemic inspection of environmental compliance on lands controlled by USACE. A copy of this report has been recently distributed to your command and should be reviewed by you and members of your staff. We reported to the Chief that compliance problems exist across USACE with the many Federal, State and local environmental laws. We found at HQUSACE, and throughout the Corps:
- a. Organizational confusion as to who was in charge of environmental compliance.
 - b. Lack of comprehensive guidance.
- c. Lack of Corps-wide policy on disposal of our hazardous materials and hazardous waste.
 - d. Training shortfalls.
- e. Inadequate environmental assessment/inspection on lands we control.
- f. Failure to program resources to insure environmental compliance.
- g. Problems with environmental compliance on Corps lands leased to others for use.
- h. Unfulfilled commitments to mitigate environmental impact on many Corps projects.
- 2. Our inspection teams visited fourteen districts in eight divisions and a laboratory. Inspectors physically toured over 240 different sites. They found compliance issues at virtually every site visited. Enclosed are pictures of typical findings.
- 3. I would like to emphasize that the situations shown in the pictures are typical and were not found at only one location or in any one particular district. Rather, they are likely to exist at any site or possibly at every site. I urge you and your staff to make it a special point to visit all land under your jurisdiction, especially lands leased and outgranted to others, with a keen eye to discover any environmental compliance

CEIG-I (20-1g)

SUBJECT: Environmental Compliance Concerns Within USACE

violations or problems. You then need to follow through and insure resources are programed and dedicated to correct these problems in a timely fashion.

4. The U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) is available to answer environmental questions at 1-800 USA EVHL. My POC for this action is LTC Dan Shuey or LTC Fred Streb at Commercial (703)355-3575 or DSN 345-3575.

FOR THE COMMANDER:

Encl

GERALD M TEPPINS

Zolonel /

The Engineer Inspector General

CF:

CECER

CECRL

CETEC

CEWES

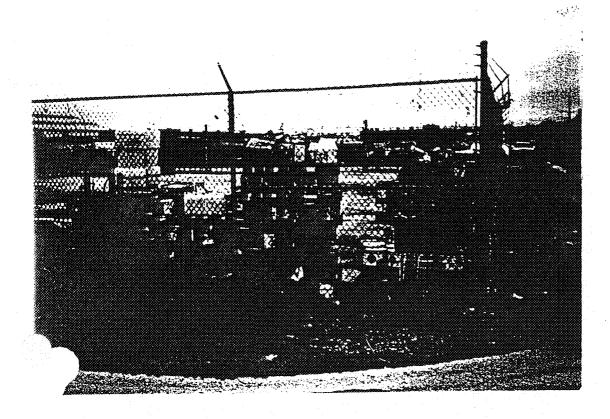
CEHSC

CETHA

CECW-ZA (MG Williams)

CECW-O (Mr. Elmore

ENVIRONMENTAL INSPECTION PHOTOGRAPHS

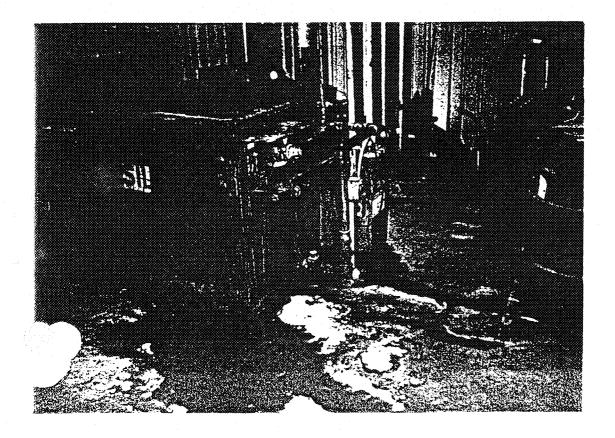


Photograph 1

Storage Area

Area of Concern:

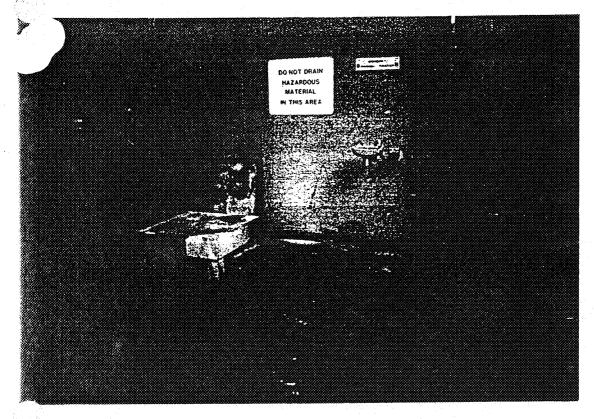
- 1. Violation of RCRA, CERCLA, and TSCA
- 2. Soil Contamination
- 3. Improper
 storage/disposal
 of HTW



Photograph 2

Maint. & Paint Shop

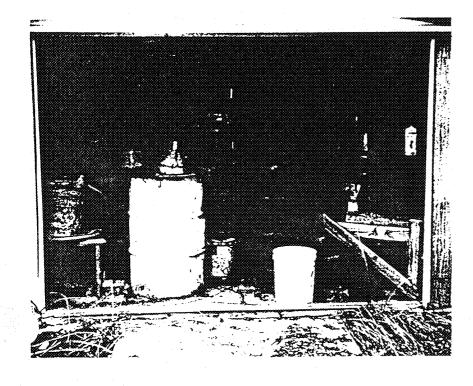
- 1. Violation of CWA
- 2. Requires NPDES permit
- 3. Discharge of Hazardous waste into reported storm drain



Maint. & Paint Storage Area

Area of concern:

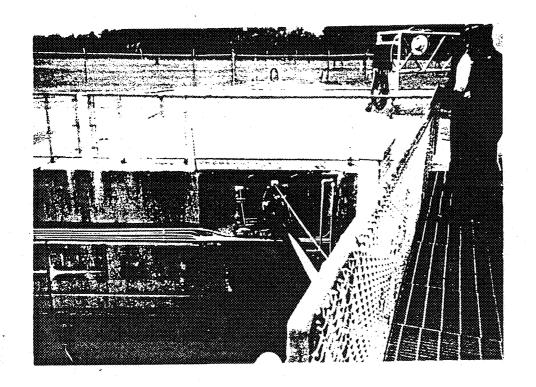
- 1. Violation of RCRA and CWA
- 2. NPDES permit required
- 3. Discharge of Hazardous Material into reported storm drain



Photograph 4

Used Oil Storage Area

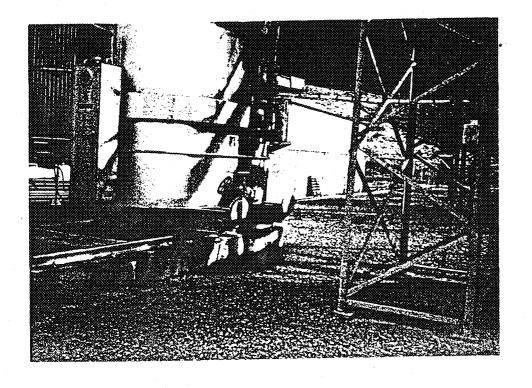
- 1. Violation of RCRA
- 2. Soil contamination
- 3. Requires spill contingen-cy plan
- 4. Housekeeping



Lock and Dam

Area of Concern:

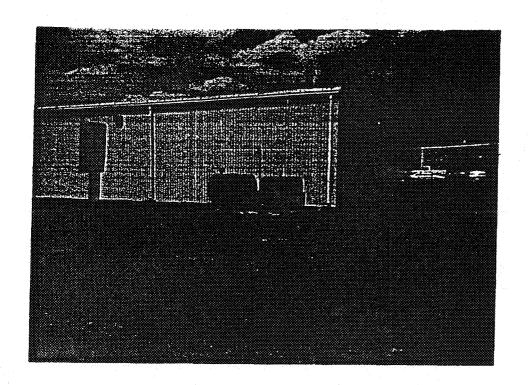
- 1. Violation of CWA
- 2. Spill prevention plan
- 3. Contamination of project waters



Photograph 6

Hydropower Plant Transformers

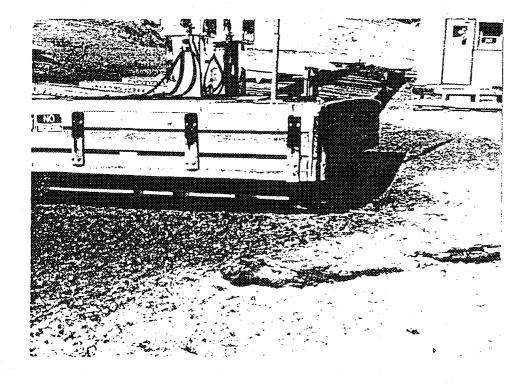
- 1. Violation of CWA and CERCLA
- 2. Soil contamination
- 3. Discharge of Hazardous materials (possible PCB)



Diesel Oil Storage Tanks

Area of Concern:

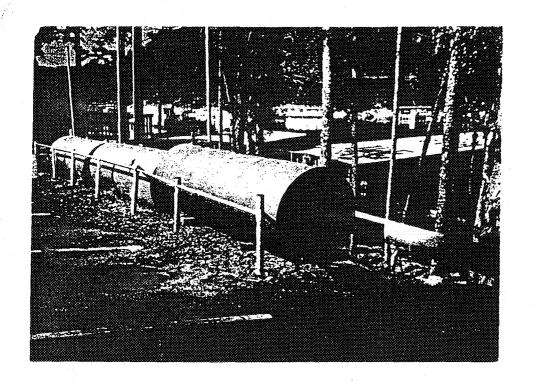
- 1. Soil contamination
- 2. Location of storm drain requires spill contingency plan



Photograph 8

Gasoline Dispensers in a Marina.

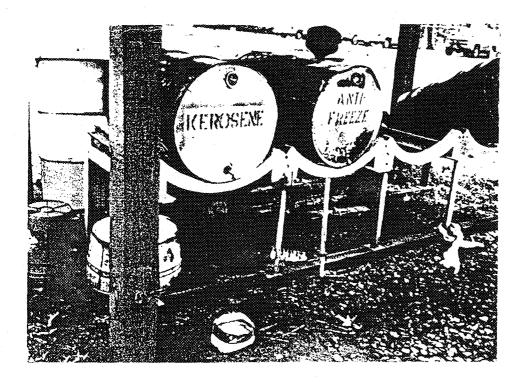
- 1. Violation of CWA
- 2. Contamination of project waters
- 3. Lack of environmental compliance/enforcem ent on real estate lease



Fuel Storage Area in Marina.

Area of Concern:

- 1. Violation of CWA
- 2. Requires spill contingency plan
- 3. Lack of environmental compliance/enforcem ent on real estate lease



Photograph 10

Dispensing Area

- 1. Soil contamination
- 2. Spill contingency plan
- 3. Housekeeping



Solid Waste Disposal site

Area of Concern:

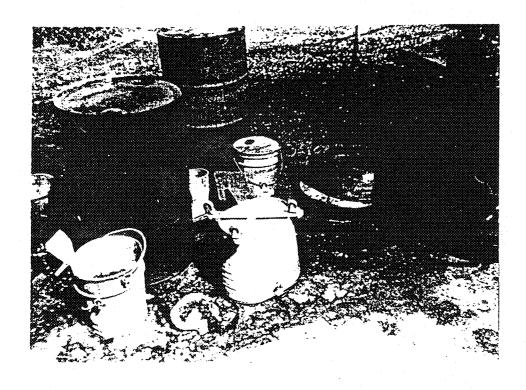
- 1. Violation of solid waste disposal regulations
- 2. Creosote timbers: Violation of CERCLA
- 3. Potential NPL site



Photograph 12

Used Drums & Metal Storage Area

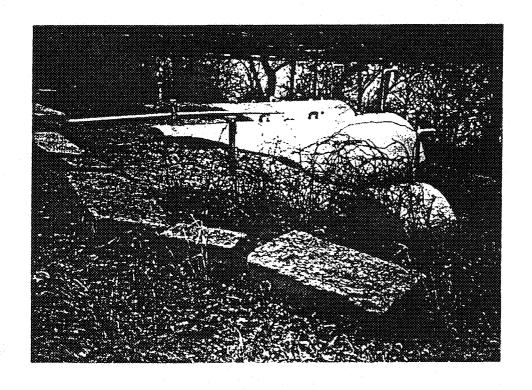
- 1. Violation of RCRA and solid waste regulations
- 2. Soil contamination
- 3. Improper storage of HTW
- 4. Lease enforcement



Storage/Wash and Fuel Transfer Site

Area of Concern:

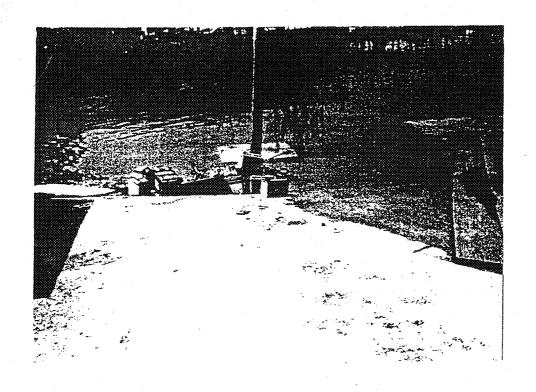
- 1. Violation of RCRA and CERCLA
- 2. Soil contamination
- 3. Requires spill contingency plan
- 4. Improper storage of haz-ardous materials
- 5. Housekeeping



Photograph 14

Fuel Storage Area

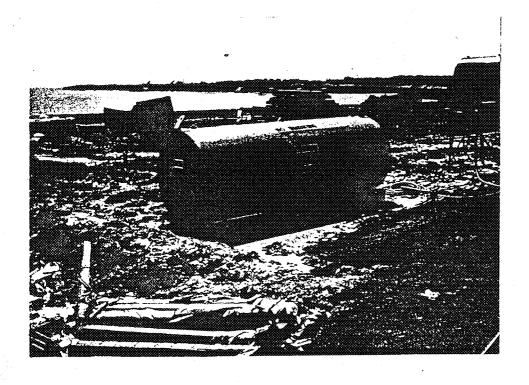
- 1. Violation of RCRA and CWA
- 2. Requires spill contingency plan
- 3. Underground fuel storage tank requirements



Batteries Storage Area

Area of concern:

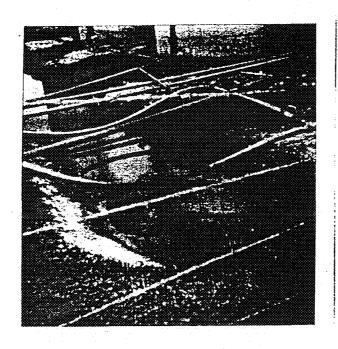
- 1. Violation of CWA, CERCLA
- 2. Contamination of Project Water's
- 3. Lease enforcement



Photograph 16

Contractor's Storage Tank

- 1. Violation of CWA
- 2. Soil contamination
- 3. Enforcement of Contract Requirements for Environmental Compliance.
- 4. Spill contingency plan



Oil Rights Outgrant

Area of Concern:

- 1. Violation of RCRA, CWA
- 2. Soil Contamination
- 3. Lease enforcement
- 4. Spill contingency plan



Photograph 18

Oil, Paint Storage Area

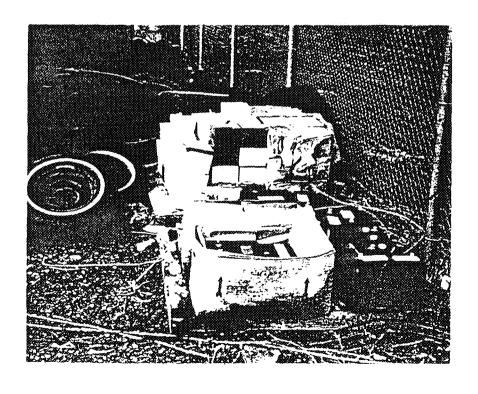
- 1. Violation of RCRA
- 2. Improper storage of HTW
- 3. Soil contamination
- 4. Housekeeping
- 5. Spill contingency plan



Paint, Oil Storage Area

Area of Concern:

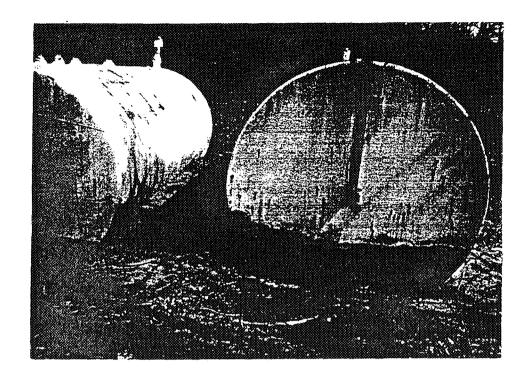
- 1. Violation of RCRA, CERCLA
- 2. Soil contamination
- 3. Improper
 storage/disposal
 of HTW
- 4. Housekeeping
- 5. Spill contingency plan



Photograph 20

Batteries Storage Area

- 1. Violation of RCRA, CERCLA
- 2. Improper
 storage/disposal
 of HTW
- 3. Spill contingency plan



Fuel Tanks

Area of Concern:

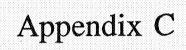
- 1. Violation of RCRA
- 2. Spill contingency



Photograph 22

Contractor's Fuel Dispensing Area

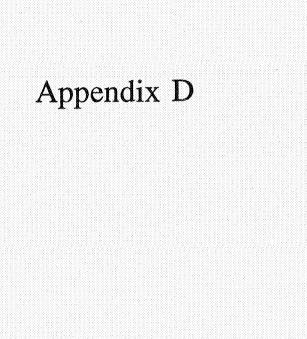
- 1. Soil contamination
- 2. Poor housekeeping
- 3. Spill contingency plan



ENVIRONMENTAL COMPLIANCE

ABBREVIATION LIST

CAA		Clean Air Act
CFR		Code of Federal Regulations
CO	***	Carbon Monoxide
CWA	-	Clean Water Act
DoD		Department of Defense
ECC		Environmental Compliance Coordinator
EPA	~-	Environmental Protection Agency
ECAS	Cause	Environmental Compliance Assessment System
ERGO	-	Environmental Review Guide for Operations
FIFRA	*	Federal Insecticide, Fungicide, and Rodenticide Act
FWS	·	U.S. Fish and Wildlife Service
MP	-	Management Practice
MSDS	-	Material Safety Data Sheet
NAAQS	~	National Ambient Air Quality Standards
NEPA	4-8	National Environmental Policy Act
NFPA	900	National Fire Protection Act
NHPA	~	National Historic Preservation Act
NHRM		Natural and Historic Resources Management
NO_{χ}		Nitrogen Oxides
NPDES	-	National Pollutant Discharge Elimination System
NRM	~	Natural Resources Management
OHSPC	***	Oil and Hazardous Substances Pollution Contingency Plan
OMP	-	Operational Management Plan
PCB's	•	Polychlorinated Biphenyls
pCi/L	~~	picoCurie per Liter
PMP		Pest Management Plan
POL	-	Petroleum Based Fuel or Lubricant
PPM	~	Parts Per Million
RCRA	***	Resource Conservation and Recovery Act
SARA		Superfund Amendments and Reauthorization Act of 1986
SDWA	•••	Safe Drinking Water Act
SHPO	-	State Historic Preservation Officer
SPCC	-	Spill Prevention Control and Countermeasures
TCLP		Toxic Constituent Leaching Procedure
TSCA	~	Toxic Substances Control Act
TSDF	-	Treatment, Storage, and Disposal Facility
UFO	~~	Unidentified Flying Object
USACE		U. S. Army Corps of Engineers
UST		Underground Storage Tanks
VOC.	~~	Volatile Organic Compound



AN ARCHAEOLOGICAL RECONNAISSANCE SURVEY OF THE HOP BROOK DAM FLOOD CONTROL AREA, NAUGATUCK, MIDDLEBURY, WATERBURY, CONNECTICUT

Alan Leveillee Joan Gallagher John J. McNiff

Submitted by:

The Public Archaeology Laboratory, Inc. 217 Angell Street Providence, Rhode Island 02906 Deborah C. Cox, Principal Investigator

Submitted to:

Sanford Ecological Services, Inc.

and

Department of the Army New England Division, Corps of Engineers

> Contract No. DACW33-85-D-002 Delivery Order No. 0020

and C2) were placed on the terrace. Transect C1 consisted of 11, 50 x 50 cm test pits at 10 m intervals. Transect C2 consisted of eight, 50 x 50 cm test pits at 10 m intervals. No cultural material was recovered from these pits other than field trash consistent with twentieth century occupation. No further testing is recommended in Area C.

Area D was heavily impacted by dam construction. Landscaping and creation of picnic areas, construction of bridges, parking lots, a beach, rest rooms, the spillway and the dam itself are part of the impacts. Area D was evaluated and given a low sensitivity and no testing was conducted in Area D.

Conclusions

Much of the area within the Hop Brook Reservoir area has been severely impacted by activities associated with dam construction. Most evidence of Bradleyville, with the exception of the Bradley Sawmill and Knife Company, has been destroyed. The significance of the Sawmill and Knife Company should be determined before impacts are planned in this area.

The three prehistoric sites found at the eastern edge of the reservoir area are not now impacted by activities at the reservoir. Any activities which might have an impact on these sites should be preceded by an evaluation of the vicinity between Wooster and Welton Brooks. We believe that the likelihood of discovering as yet unrecorded sites in the project area is relatively low.



NRB

CULTURAL RESOURCE RECONNAISSANCE

FOR CONSTRUCTION OF RECREATION FACILITIES AT

THE DAY USE AREA OF HOP BROOK DAM,

MIDDLEBURY, NAUGATUCK, AND WATERBURY,

CONNECTICUT

PROJECT MANAGER
HOP BROOK LAKE
U. S. 'ARMY CORPS OF ENGINEERS
ROUTE 63
MIDDLEBURY, CONNECTICUT 067

Prepared for:
U.S. Army Corps of Engineers
New England Division
424 Trapelo Road
Waltham, Massachusetts

By:

John S. Wilson, Principal Investigator Division Archaeologist

Patrice A. Teltser Co-Investigator 6) A well, to be utilized for the project; associated with Feature 5.

Transect T-1 yielded core profiles of red-brown sandy loam. Beginning at Core 6 and extending westward, a dense gravel layer prevented penetration below 3 cm. Two test pits (A and B) were excavated 3m. south of Core 9 and 6 m. south of Core 15, respectively (Fig. 7). They revealed a similar profile of red-brown sandy loam grading into light brown sandy loam, with considerable stones and gravel throughout the profile. Test Pit "A" exhibited 7 cm. of gravel at the surface, while Test Pit "B" had a turf surface. The backhoe pit exhibited a similar profile of dark brown sandy loam to 9 cm., over red-brown sandy loam to 30 cm. grading to light brown sandy loam beneath. Stones and gravel content was considerable below 9 cm. depth (Figs. 7 & 8).

B. Interpretation

With the exception of the field wall, the surface historic period features located during the reconnaissance are all of late 19th century or, more probably, 20th century date. The foundations are all shallow or slab concrete type, with little evidence of subsurface components. Small amounts of debris present, such as tin cans, glass, etc., are also at 20th century deposition, and most probably post-date the occupations. These factors indicate that the historic period features in the impact area do not constitute significant cultural resources eligible for the National Register of Historic Places.

No subsurface features or artifacts of either historic or prehistoric date were located during subsurface testing, with the sole exception of

HISTORIC AND ARCHAEOLOGICAL
RECONNAISSANCE INVESTIGATIONS
HOP BROOK RAILROAD EMBANKMENT
AT HOP BROOK DAM
MIDDLEBURY AND NAUGATUCK, CONNECTICUT

Suzanne Glover

Submitted to:

Daylor Consulting Group, Inc. Suite 216, World Trade Center Boston, Massachusetts 02210

and

Department of the Army
New England Division, Corps of Engineers
424 Trapelo Road
Waltham, Massachusetts 02254-9149

Contract No. DACA33-88-D-008

Submitted by:

The Public Archaeology Laboratory, Inc.
387 Lonsdale Avenue
Pawtucket, Rhode Island 02860

December 1989

PAL, Inc. Report No. 337

MEMORANDUM FOR DISTRIBUTION A

SUBJECT: Hazardous Material Inventory

- 1. Reference 29 CFR 1910.1200, Hazard Communication
- 2. In accordance with the referenced standard, you are requested to perform an inventory of all chemical containing products purchased, used, or stored in your Directorate or Separate Office. Common household products are to be included in your inventory. Also, identify any hazardous material or chemicals generated during work operations (waste stream). A hazardous material inventory provides supervisors the ability to inform employees of chemical presence, potential hazards, toxic effects and control measures that are to be taken to minimize exposure.
- 3. The attached form will assist you in gathering all pertinent information. Any previous completed inventory in other formats may be acceptable provided they contain the same information as the data required on the attached form. Please forward your completed inventory to this office by 17 January 1992. I recommend you maintain a copy for yourself.

4. Questions or comments may be directed to the undersigned at 7216.

Attachments: as

James F. PECK

Safety and Occupational

Health Manager

TO: PMs; HBL, TD and CRL 12/13/91 Per this and the 12/9 memo attached, the SOHM is requesting an updated listing of hazardous materials at project using the enclosed inventory form to record pertinent info.(3 products per form sheet). We have completed other similar inventories fairly recently but which do not include now requied info. I have enclosed what I have in my files for your review and use in preparing the forms. ome things have since been disposed of.

Pls. complete the inventory and forms and return to me NTL Jan.13, 1992 for consolidation and submittal, keep a record copy for you files for period update.

CF: NRB files (Haz. Mat Mgmt. 200-1c.)

R. Morgan NRI

CENED-SO

MEMORANDUM FOR DISTRIBUTION A

SUBJECT: HAZARDOUS MATERIAL INVENTORY

- 1. Reference Memorandum, same subject, dated 4 December 1991.
- 2. When performing your inventory identify products which may <u>not</u> be completely used in an operation and requires disposal. Current disposal practices should also be noted. You can provide this information by placing notations on the form next to the product listing.
- 3. Please use the following guidance to clarify the terms on the inventory form located on the referenced memorandum's attachment.

Building Name: The name of the building where the product is stored.

Code: Leave Blank all code blocks.

Work Area: The location where the product is used (if other than above).

Product Name: Identify the product name as it appears on the container. Include catalog or series number contained in the name.

NSN: The federal/national stock number, if known.

Manufacturer Name: The manufacturer's name as it appears on the container. Also provide the address at least once for each manufacturer.

Form: Provide the form the product comes in; i.e., gas, liquid, solid, gel, spray, spray can (not aerosol).

USE: Identify the products purpose.

User: The worker(s) job title who utilizes the product on a routine basis.

CF: NRB file (Haz.Mat. Mgmt. 200.1c.)

CENED-SO 9 December 1991

Subject: Hazardous Material Inventory

Quantities: Record only those products which are present in the three following units: pounds (solids), gallons (liquids), or cubic feet (gas). Record the average quantity on hand to the nearest 0.1 unit. "Last inventory" refers to the quantities recorded in the last inventory.

MSDS: "Material Safety Data Sheets" refers to sheets provided by the manufacturer detailing safety, health, first aid, emergency response, and other important information. Answer "yes" or "no" if a copy is located at the workplace.

- 4. The Hazardous Material inventory must be kept current in order for managers and supervisor to utilize it effectively. Thus, be advised an inventory update will be requested on an annual basis.
- 5. I can be reached at X7216 for any questions and comments. Thank you for your support of the NED Safety and Health Program.

CF: PMs NRB NRB file

JAMES F. PECK
Safety and Occupational
Health Manager

	INCIDENT REPORT		RCS: DAEN-PM7					
REPORT NO	MPI/CID NO	***************************************	DATE OF REPORT 14 June 1993					
TO Security & Law Enforcem U.S. Army Corps of Engi 424 Trapelo Road Waltham, MA 02254-9149		FROM: Park Manager Hop Brook Lak Route 63 Middlebury, C	е					
TITLE IXP		CORPS EMPLOYEE INVOLVED: YES NO IF YES, NUMBER INVOLVED AS VICTIM SUBJECT TIME						
Hop Brook Lake boundary Middlebury, CT 06762		Approximately OATE 13 June 1993 ADDRESS	7 15:00 hours					
3 REPORTED BY: Kristin Polonski Delores Polonski		165 Whittemor						
4 TYPE/STATUS OF REPORT CLOSED WINITI 5 DETAILS (who what, when where, why, how ATTACH REPORTS FROM OTHER AGENC (See attached sheets)). SUPPORTING PHOTOG	GRAPHS, NEWSPAPER ARTICLES	CMOIR TE SHEET					
6 (X) REPORTED (X) RI	FERRED TO	☐ LOCAL POLICE	C) SHERIFF					
STATE POLICE OM			OTHER (SPECIFY)					
7 RECOMMENDED PREVENTIVE CORRECT		RIATE CT I	Dept. of Env. Protection Files					
8 DOLLAR VALUE 3 GOVERNMENT PROPERTY	sN/A	b CONTRACTOR PROPERT	y s <u>N/A</u>					
9 OCCURRED ON/AGAINST CORPS PERSONNEL, EQUIPMENT OR FOR THAN RECREATION AREAS RECREATION AREAS PRIVATE PERSONNEL OR PROPERTY	PROPERTY	INVOLVED VANDALISM TO CORPS PRO LARCENY OF CORPS PRO OTHER						
NAME GRADE AND TITLE OF REPORTING Troy Fitzsimmons, GS-07	OFFICER	SIGNATURE/	D 18/2/1/2					

On 13 June 1993, at approximately 15:00 hours, Delores and Kristie Polonski of 165 Whittemore Road, Middlebury, CT 06762 (Tel: 203-758-8066), dropped off a sample of an unknown chemical substance. The women stated that the sample came from one of approximately 15-20 55-gallon drums located on or near Corps of Engineers property adjacent to I-84 in Middlebury, CT. Park Ranger Troy Fitzsimmons investigated and found nine drums in a drainage ditch that empties into Hop Brook. He was informed later that the rest of the barrels were located in another area. Ranger Fitzsimmons contacted the Connecticut Department of Environmental Protection (DEP). Emergency Response Coordinator/State Inspector Richard Ciasullo #912 responded. Upon arrival Inspector Ciasullo took a sample from the barrels and investigated the site. He stated that he would contact us if the need arises and that the site would be cleaned up by 14 June 1993.



STALE OF CONNECTICU'S DEPARTMENT OF ENVIRONMENTAL PROTECTION



DO YOU GENERATE HAZARDOUS WASTE?

MANY SMALL BUSINESSES DO.

This booklet will help Small Quantity Generators understand and comply with new and existing requirements for managing hazardous waste.



Prepared by: The State of Connecticut

Department of Environmental Protection (DEP)

HAZARDOUS WASTE MANAGEMENT SECTION

165 Capital Avenue Hartford, CT 0610

Telephone Numbers:

Enforcement & General Information: 566-8843 Permitting & General Information: 566-4869

SEPTEMBER 1985

HIM MUCH WASTE MUST MY BUSINESS GENERATE TO BE REGULATED UNDER THE NEW FEDERAL/STATE REQUIREMENTS?

The State of Connecticut considers you a Small Quantity Generator (SQG) if you always generate less than 1,000 kilograms of hazardous waste in a calendar month. (1,000 kilograms = 2,200 lbs, or approximately 3 1/2 to 5 fifty-five gallon drums, depending on the weight of the contents).

If you are an SQG who produces BETWEEN

100 kg.(220 lbs.) <----> 1,000 kg. (2,200 lbs.)

of hazardous waste in a month, you are now subject to increased requirements for handling hazardous waste.

You should be aware that the State of Connecticut has additional and more restrictive requirements than EPA. These state requirements apply to all plants or facilities located in Connecticut. These requirements are described below.

If you NEVER produce more than 100 kg (220 lbs., or approximately 1/2 of a 55 gallon drum), then the new FEDERAL requirements described in this brochure do not apply to you. However, you are still subject to some limited requirements. (Briefly, you must store the waste properly so it does not constitute a potential threat of pollution, and you must send the waste to a permitted facility for treatment, storage or disposal. Contact the State of Connecticut DEP for a copy of the "Small Quantity Generator Guidelines* for more information on these requirements).

WHAT MUST I DO JIF I AM REGULATED UNDER THE NEW FEDERAL OR STATE REQUIREMENTS?

If you have determined that you do generate hazardous wastes, you must:

- properly handle your wastes on your premises, following state and federal requirements
- periodically ship your wastes off your premises for treatment, storage or disposal, following any applicable state and federal requirements.

HOW DO I SHIP HAZARDOUS WASTE OFF MY PREMISES?

Under current law, you can:

- Contact a company in the business of accepting other firms' hazardous waste for treatment, storage or disposal. This company MUST BE PERMITTED by the State or EPA to manage hazardous waste. Be sure the facility knows the type of hazardous wastes you have and is authorized to take them, or the wastes could be returned to you.

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		- (1) WATER	l, (2) SEWER, (5) GAS	······	**********	1, 2, 3	, 4	NUMBER OF CLASS B CAMPSITES						0	
E. TEE	UOMA C	NT OF TIMBE	R (Bd ft)			1,387,2	:68	۸	IUMBER OF PP	RIMITIVE CAMP	SITES			0	
21	мощенакоппппп		Magazaaa Wissanii Alekanii Manaleen Manaleen Manaleen Manaleen Manaleen Manaleen Manaleen Manaleen Manaleen Ma	RE	SUME	OF PROJE	CT BUIL	DINGS	S AND EXTE	NT OF USE		***************************************		***************************************	
BLDG NO		DESIGNATIO	N OR TYPE		SQU	ARE FT	YEAR BUILT	T	COST	EXTENT OF USE			REMA		
l.	Hq~	Utility	y Bldg		338	84	1968	\$10	06,887.	100	30 x 30 second floor addition completed 9				
2.	Bas	in Mgr.	Ofc. Adm		1,47	2	pre 1966		23,500.	100	27'-3" x 30'-6"				
3.		rage Bui			8		1968		3,000	100	7' x	10'-	-5"		
4.	Bas	in Ofc.	Garage		73	1	pre 1950			100	incl buil	uded ding	in pr	rice of	
5.			age Bldg		1,22	2	1980	1	20,460.	100	40'-	5" x	30'-3	3''	
6.	Com	fort Sta	ation		41	6	1980	(90,000.E	100	16'	x 26'	·		
: 7 .		fort Sta			50		1974		60,000.E	100	31'-	411 x	16'		
8.		nic Shel			64	8	1982		6,000.E	100	18'	х 36	1		
9.		nic Shel			145		1987		25,000.E	100					
10.	Pic	nic Shel	lter	145	0	1987		15,000.E	100						
	Gate House					0	1966	no	t avail.	100					
: T													*****		
		,													
AND DESCRIPTION OF THE PARTY NAMED IN COLUMN 19 AND THE PARTY NAME	·	00000000000000000000000000000000000000	000000706555009999999999	***************************************	000000000000000000000000000000000000000	ELGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CONTRACTOR PROPERTY	000000000000000000000000000000000000000	<u>anaganantanya, anaganantan</u>	00000000000000000000000000000000000000	onecoccepture.	000000000000000000000000000000000000000	DOCUMENTAL SECTION OF THE PROPERTY AND T	729070 00000000000000000	

Hop Brook Lake Middleb CT

New England Division

12 1 - 92

TYPE OF INSTRUMENT	CONTRACT NUMBER	GRANTEE	PURPOSE		REC OTIC 1-20MME	TIVE ON ENDED	
THE OF MOTIONEW				FROM	ТО	YES	МО
Easement	DACW33-2-75-49	CT Light & Power	Elec power line (west of Bristol St.)	25 Apr 75	24 Apr 00		Х
Easement	DACW33-2-75-8	Town of Middlebury	R/W for road Allerton Farm Rd (2.10A)	16 Aug 74	Indefinite		Х
Easement	DACW33-2-83-41	Town of Middlebury CT	R/W Sanitary sewer pumping station	12 Apr 83	11 Apr 33		Х
Letter Permit	Dated 6/4/74	Louis Lucas	Beautification por. Tr. 114 and 115	4 Jun 74	Indefinite		X
Letter Permit	Dated 2/14/80	Bruce Dessereaux	Beautification Tr. 146	14 Feb 80	Indefinite		Х
Lease	DACW33-1-90-23	James Zachary	Minor Concession	15 Apr 90	31 Dec 92	Anna and anna anna anna anna anna anna a	Х
		Apple to the state of the state				Day on water than the state of	
						NACH PROPERTY OF THE PROPERTY	
						Accessors to the second contract of the secon	
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`						COMPAND BEALT OF THE PROPERTY	
•						1	<u> </u>

The outgrants listed above have been visually inspected and noted particularly as to maintenance, repair, condition of property, utilization, additions or alterations, and for any unauthorized use, transfer or assignment of interest. The grantees are complying with the terms of the respective instruments in all cases which show no corrective action recommended (cases shown as recommending corrective action, indicate noncompliance in some respects, and a separate report on ENG Form 3131 is attached).

REPORT APPROVED (Signature of Chief, RE Division)	SIGNATURE OF INSPECTOR		INSPECTED WITH (If Applicable)	
FREDERICK W. COLMAN	J. PETRIK/S. WOODBURY .	NAME Les Butler	Project Manager	TELEPHONE NO

ENG FORM 3560 (cont.)

HOP BROOK LAKE NARRATIVE 12 August 1992

- 1. Fifty year drainage easement over Tract 161 has not been renewed by new owners.
- 2. A permanent easement (2.88 acres) has been acquired from the state of Connecticut to effect repairs to the dam.
- 3. A new comfort station is in the process of being constructed.
- 4. Construction of a second floor to the Headquarters building is completed.
- 5. There have been no acts of discrimination against any person or persons because of race, color, religion, or national origin in the operation of this Civil Works property under Title 6 of Civil Right Act of 1964.
- 6. Item No. 10 * disposal deed reserved flowage easement over 12.35 acres. ** Total includes the flowage easement reserved.

DISTRIBUTION:
Oper. Dir
Basin Mgr/ NRB
Proj Mgr/Hop Brook
RE Die File
Convey Div
S. Woodbury

19 11 1 (1911) *C	PERTINENT	DATA
heust		
⊃illway ⊰3 feet	RIVER BASIN:	Housatonic
ontain	PROJECT NAME: RIVER:	Hop Brook Lake Hop Brook
`t abut~	LOCATION:	Middlebury, Connecticut
f runoff llows:	DRAINAGE AREA SQ. MILES:	16.4
	RESERVOIR	
	Permanent Pool Elev. ft m.s.l. Capacity - Acre Feet	Permanent Pool 310 120 0.14 21
	FLOOD CONTROL STORAGE Capacity - Acre Feet	6,850 7.8 270
<u> </u>	Type Length - feet Top width ft. Top elev. ft - m.s.l. Height above river bed	Rolled earth fill 520. 25 381 97
	Type Length - feet Top Width - feet Top elev. ft m.s.l. Height above river bed - ft	Rolled earth fill 404 15 381 33
o	SPILIWAY Type Length - feet Elev m.s.l. Distance below to top of Dam - fee	Chute Spillway Broadcrested Weir 200 364 et 17

CONTROL WORKS

Type

Rectangular Concrete Conduit

Size - feet Length - feet Invert elev m.s.l. Capacity - full pool - c.f.s. Gates - Type Number Size	3' x 5' 425 292 600 Hydraulic Sluice 2 3' x 4'
TOTAL QUANTITIES Embankment Volume - c.y. Concrete - c.y.	282,800 3,300
TOTAL COST	\$5,500,000
OPERATIONAL DATE	October 1968
PROJECT AREA - Fee (Acres) Easement (Acres)	616 (est.) 2 (est.)
RECREATIONAL FACILITIES	None
Managed by:	N. A.
NO. OF PERMANENT EMPLOYEES:	2
RADIO CALL SIGN:	WUA 444
RIVER STAGE CHECKPOINTS AT:	Naugatuck River, Beacon Falls, Conn.
NO. OF GOV'T QUARTERS:	2

Riverine - generally all wetlands and deepwater habitats contained within a channel.

Palustrine - all non-tidal wetlands dominated by trees, shrubs and persistent emergent herbaceous plants.

Total wetland acreages for the project area include 20 acres of lacustrine wetland, 28 acres of palustrine forested wetland, 12 acres of palustrine shrub/scrub wetland, 2 acres of palustrine emergent wetland, 2 acres of palustrine open water/aquatic bed wetland and a total of 2.8 miles of riverine wetland. There are also several unnamed and intermittent streams throughout the project area (see Wetland Map, Figure 6).

1. Lacustrine

a. Hop Brook Lake

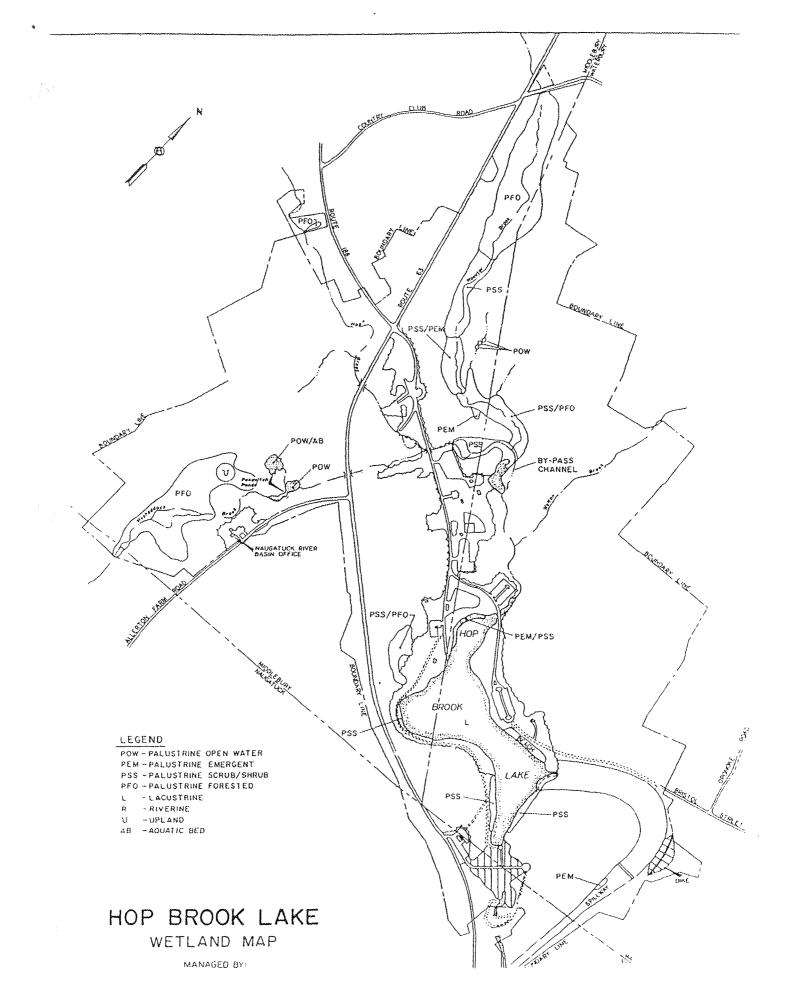
The Hop Brook Lake conservation pool has an area of 21 acres (20 acres of lacustrine wetland minus 1 acre of palustrine emergent wetland along the northwest perimeter), a maximum depth of 30 feet (18 feet at the dam), a mean depth of 16 feet and a volume of about 330 acre-feet. If filled to capacity, the reservoir would have a water surface area of 270 acres, a maximum depth of 84 feet and extend 1.6 miles upstream.

At conservation pool level, water depth precludes the development of aquatic vegetation throughout much of the lake. Emergent vegetation is limited to a narrow zone along approximately half of the shore perimeter. Species present include arrowhead (Sagittaria latifolia), soft-stem bulrush (Scirpus validus), wool-grass (Scirpus cyperinus), yellow loosestrife (Lysimachia terrestris), speckled alder (Alnus rugosa) and black willow (Salix nigra).

2. Riverine

There are four major streams within the Hop Brook Lake project area: Hop Brook (1.1 miles), Wooster Brook (0.8 miles), Welton Brook (0.3 miles) and Meshaddock Brook (0.6 miles) (also called Shattuck Brook). Total riverine habitat of the major contributing streams is approximately 2.8 miles. There are also several unnamed and intermittent streams throughout the project area.

American elm (<u>Ulmus americana</u>), eastern cottonwood (<u>Populus deltoides</u>), red maple, silver maple (<u>Acer saccharinum</u>) and American sycamore (<u>Platanus occidentalis</u>) are typically found in the riparian overstory along these streams. Understory woody and herbaeous vegetation consists of silky dogwood (<u>Cornus amomum</u>), spicebush (<u>Lindera benzoin</u>), American hornbeam (<u>Carpinus caroliniana</u>), eastern bumelia (<u>Bumelia lycioides</u>), skunk cabbage (<u>Symplocarpus foetidus</u>), wood-nettle (<u>Laportea canadensis</u>), lily (<u>Lilium sp.</u>), mosses, liverworts, grasses and ferns.



HOP BROOK LAKE MIDDLEBURY, CONNECTICUT

FOREST MANAGEMENT PLAN MASTER PLAN APPENDIX B

AND

FISH AND WILDLIFE MANAGEMENT PLAN MASTER PLAN APPENDIX D

Department of the Army
New England Division, Corps of Engineers
Operations Division
Waltham, Massachusetts

January 1981

1685

SECTION 7. ENDANGERED SPECIES

No federally recognized endangered mammalian, reptilian, amphibian, fish or avian species is known to presently inhabit the Hop Brook Lake area.

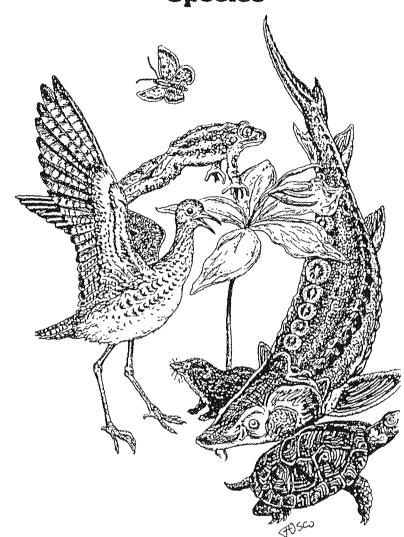
Sightings of Connecticut State Endangered Osprey, Pandion haliaetus, are made occasionally in the reservoir, but these appear to be transient. No sightings of breeding pairs have been recorded in the immediate area. The Great Blue Heron, Ardea herodias, designated a Connecticut State rare bird, is a frequent visitor in the warmer months, but no evidence of breeding for this bird may be seen.

Measures will be taken to create public awareness of endangered species through the posting of informative material on the animal or other intrepretive activities following the sighting. Sightings of endangered species will be reported to Connecticut State Region II Wildlife biologist. Ranger personnel from the Naugatuck River Basin will continue the midwinter Bald Eagle (which was initiated in January, 1979,), survey sponsored by the National Wildlife Federation.

Connecticut Department of Environmental Protection

O.T

Connecticut's Endangered, Threatened and Special Concern Species



State of Connecticut Department of Environmental Protection 1992

								7 7 7 77 1600	- Exh
	project	OWNER	PRI/SEC VOLTAGE	AGE	POLE #	PCB LEVEL	HO OF THANSFORMERS	Dak. Jure 22,1990 LOCATION (1)	TECHNICAL (2) INFORMATION
	Black RK	CofE	7- 13.2 KV 3- 120/2404	10 405	Wore, Soys # 156 ch # 186 ch Wore, Soys	-		an Gover 40 pole sol in Front of an Gover 40 pole on DIS toes	TOKVA - 10 GON GICTIC
	YGCK RK	CofE	D- 3.2KV 5-480V	20 1/5.1	None, Says E159 on plans None		3	of dam 1001 to of cutlet Control tower operating Room	3-10KVA -1 B See Sheet -6/ 1920: 972/19226 COMPS
	BLCK RK	CofE	7 480 V 3-200/00V	20 4rs=		1-2501	/	near Service Manel	C160 Rmp (15 115 15KVA 9707) 30,60 cy, 45KVA, 201/5K/4.
	: Elenrook	CofE	7-4800.V 5-120/08V	Dc 11-	None	1.875=2	/	Entrance to service or 15 the Suntral Trucker	RTECyro, set en concrere made
	Sieprook	Cutt	5-1201208V	-1-1 ye	4.11C	150ppm		-report dam. See Snew-=41	39, 587 ON 40 - POLE
		11-	P- 30/240V		21	200		Mide and front orme	Come thousander Type T-120 Ti-
	Payenton	CofE	5-16/32	30 1/57	None	Dry		1 so some in in	(20 CY) single phase = D-49181, 8 (2) PHI, Type SI
_	Thana yur	0/2	10,2930		None	- j		at water Quality Lot Manipular Traffy Dr. of date, right asker	ase, Pal, type SI
 >>	top Bik	OSE	P.440	23 WEE	None	Dry - 100	2	hest end top of dom access road,	18, KVA'20, Type 470 Ch. 3
>	HepBrk	CAE	P 489 5 208/1200	25 W5 I	Nou	2-1-1-12		U.B. Cold 5-mego Do. 6	65 Mar. 9-2,49302,50.
	Frantad	Ofic	P 13,2004	274 #	Nine	7,76.2	/	Cast Brace. Bright States -	3 7-9.11 - ASEC
	/	0							
-	No 60	1t-06	real +7	w tames	i at	North to	111 -01	GARCOUR LOKES	
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-							-		
-	J	<u> </u>	J				/ 1)	200mptaly dogomba leach C.	()

(1) accurately describe location of transformer, e.g. on a pole 30' from north face of utility building

⁽²⁾ provide as much technical information as possible such as manufacturer, generic or trade name of fluid used, age KVA rating, single or three phase, mounting arrangement, etc

			_}-		4	*				
		PROJECT	OWNER	PHI/SEC VOLTAGE	AGE	POLE #	ron Level	NO. OF FRANSFORMERS	LOCATION (1)	TECHNICAL (2) INFORMATION
SECRETARIA	TNRB	HBL	11506	440		j	PSQ	2	In favolhouse at and of	#11 Spr # 6608
1			MSCEC	440		•			Domacross from flogpole	Me'es 60 Phose
) '1						,			٧'	KVH . 20 CAT # 11C
		_								- class:B
							087			(#2) Ser #6608
		_								cycles-60 Phose
		_						_		+VA 20 -AT # 11003
:1		_								class B
,			LbrH.co.H					-		Temp Rise Forc
	NEB	HBL	7711112			5099			On pole next to powerhouse	Westinghouse box #-
	ļ			····					an Rt 63	
	NRB	HBL	MSCEC					-	Com Tower on wall wear	G.E. Mad FraiA93
				. *				-	hreater box	CY 60 KIA: 15 Sor# Temp 12, se 115°C
4	NRB	1+81-	CLEP	(G 24,22			Pole accioss road on Hill	box
**									from New Comfort Station	
ļ	NRB	HB/	C/1P			G1 - 576238			Pole Next to Seach Batheren	
1	NRB	HEL	US-EC	5 208/120V	23± 40	Non	DRY		With Bulding outer garage	G.E. Mad. 9121A930
										SOF DO. CY 60 HU
-				<u> </u>				<u> </u>	accurately describe location of tra	Templice 15°C 3p x
	1							(1)	accurately describe location of tra north face of utility building.	isformer, e.g. on a pole 30' from

(2) provide as much technical information as possible such as manufacture generic or trade name of fluid used, age KVA rating, single or three phase, mounting arrangement, etc.

1 NICB WILL Radon Results

10/29/91

Carial Na		Lanakian
Serial No.	Avg. Radon Conc	
#1562663	24.90	Hodges (Duplicate Basin Office Basement)
#1562677	22.60	Hodges, Basin Office Basement
#1559270	V 20.10	C Hodges, Utility Bldg
#1561991	12.00	*Spike #2
	84060 11.30	Thomaston, Control Tower
#1562078	11.20	Hodges Basin Office, Upstairs
#1559283	10.80	West Thompson, Control Tower #2
	84055 10.10	Hop Brook Base Tower
#1562021	7.90	*Spike #5
#1561997	7.50	*Spike #3
#1562006	6.40	Tully, Basin Office #1
#1562077	6.30	Franklin, Coleman Storage Building
#1561992	6.30	Hopkinton, Gate House 2nd Floor
#1559276	6.30	West Thompson, Utility Bldg
#1562041	6.20	Franklin, Basin Office Basement
#1562018	5.70	Franklin, Working level of Utility Bldg
#1559262	5.30	Otter Brook Gatehouse
#1562052 17	4061 5.00	Black Rock, Control Tower
#1562086	4.70	Otter Brook Quarters Basement
#1562712	4.60	Buffumville, Storage Bldg Basement
#1562001	4.50	Franklin, Basin Office Working Level
#1559287	4.10	Buffumville, Dam Gallery #2
#1562024	4.00	Blackwater Gate Chambers
#1559284	3.90	Barre Environmental Lab
#1562730	3.90	Barre Environmental Offices
#1562013	3.90	Franklin, Basement of Utility Bldg
#1562054	3.90	Thomaston, Asst. PM Residence
#1562034	3.80	*Spike #6
#1562666	3.70	Buffumville Gate House, Lower Level
#1559292	3.70	Buffumville, Dam Gallery #1
#1562016	3.60	*Spike #1
#1562051	3.40	Black Rock, Duplicate Utility Bldg
#1562698	3.30	Barre, Utility Bldg
#1562070	3.10	Mansfield, Living Quarters Basement
#1562008	3.00	*Spike #4
#1562020	3.00	Knightville, Lee House Basement
#1562030	2 90	Birch Hill Old Quarters Working Level
#1562015	2 90	Franklin, Seven Stall Garage
#1559278	270	Townshend Gatehouse
		Buffumville Utility Building
#1561993	2 60	Cape Cod Canal, Warehouse
#1559280	250	Tully, Duplicate Utility Bldg
#1559286	2 50	
#1562085	2.50	West Thompson, Living Quarters Basement
#1559285	2.50	Westville, Gallery #1
#1559281	2.40	West Hill, New Utility Bldg
#1559294	2 30	East Brimfield, Office
#1560409	.2 30	Franklin, Duplicate Seven Stall Garage

HOUSATONIC RIVER FLOOD CONTROL

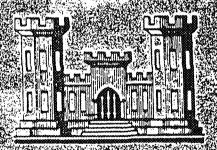
HANCOCK BROOK Damæreservoir

HANCOCK BROOK, CONNECTICUT

DESIGN MEMORANDUM NO. 9A

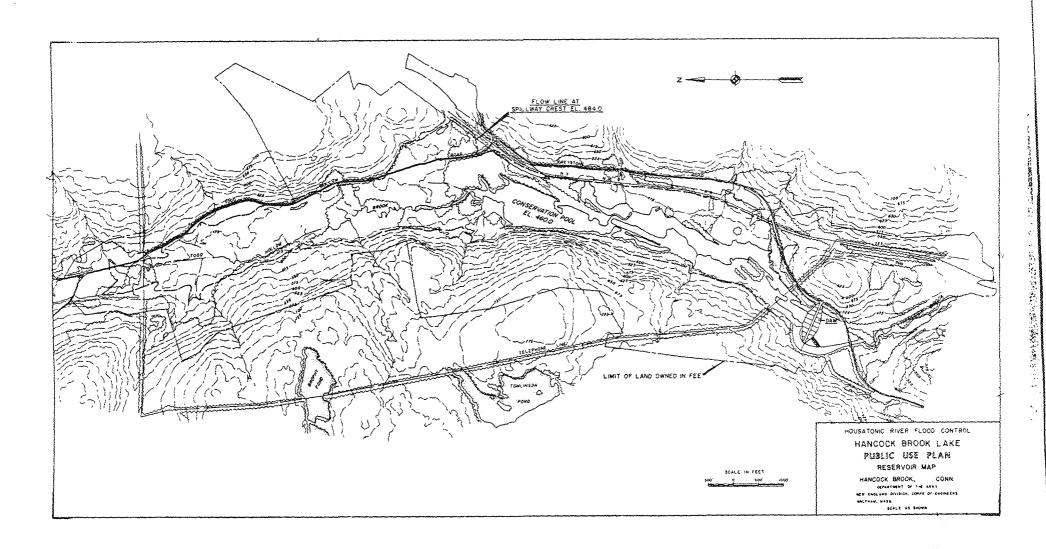
PRELIMINARY PLAN FOR RESERVOIR DEVELOPMENT

(PART OF THE MASTER PEAN)



U.S. Army Engineer Division, New England Corps of Engineers Waltham, Mass.

DECEMBER 1962



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PERTINENT DATA	
RIVER BASIN:	Housatonic
PROJECT NAME:	Hancock Brook Lake
RIVER:	Hancock Brook
LOCATION:	Plymouth, Connecticut
DRAINAGE AREA SQ. MILES:	12
RESERVOIR	
Permanent Pool	Conservation Pool
Elev. ft m.s.l.	460
Capacity - Acre Feet	130
- Inches of Runoff	0.20
Area in Acres	¥0
FLOOD CONTROL STORAGE	
Capacity - Acre Feet	3,900
- Inches of Runoff	6.13
Area at Crest - Acres	266
DAM	
Туре	Rolled earth fill
Length - feet	630
Top width - feet	20
Top elev. ft m.s.l.	505
Height above river bed - feet	57
DIKE	mallan markly Arra
Type	Rolled Earth fill
Length - feet	2,300
Top width - feet	15
Top elev. ft m.s.l.	505 25
Height above river bed - feet	35
SPILLWAY	Chute Spillway
Type	Broadcrested weir
Length - feet	100
Elev m.s.l.	484
Distance below to top of dam - feet	21
CONTROL WORKS	
Type	Rectangular Concrete Conduit
Size - feet	31-0" x 41-6"
Length - feet	222
Invert elev -m.s.l.	454
Compositive Auli word of a	うつつ

1-3

377

2' x 2'

Dewatering gate (manually operated)

Capacity - full pool - c.f.s. Gate - Type

Number Size TOTAL QUANTITIES

Embankment Volume - c.y.

Concrete - c.y.

176,900 800

TOTAL COST

\$3,700,000

OPERATIONAL DATE

July, 1966

PROJECT AREA

Fee (acres)

Easement (acres)

707 14

RECREATIONAL FACILITIES

None

NO. OF PERMANENT EMPLOYEES

HOP BROOK

O&M by Thomaston Dam Personnel

RADIO CALL SIGN

None None

RIVER STAGE CHECKPOINTS AT

NO. OF GOVT QUARTERS

None

teres & post :

processor francisco	TO COLUMN TO STATE OF THE STATE	F	REPORT	ON UTILIZ	ATIO	N OF	F CIVIL WO (ER 405-1-12)	RKS LAN	VIC.	S	AND FACIL	ITIES					
New	Engl	and	**************************************	POCKETS AND THE STATE OF THE ST	C	KSTRIC	COOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	<u> </u>	***************************************		INSPECTION D	₹£1989 #	& Sut -				
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3 TYPE OF Flo	PROJECT	Descri	be)	nagaagaahaapilliitaainpi oo apipuuruus	AAAAAAAAAAAAAAAAAA	MICHAEL PROPERTY	nedzbiałnicznoczopowowenie wykleje	-		***********	4. AGOBIETK	Pok ^{ala} Arq	Policy				
5 TYPE OF	BUILDING	SPACE	OFF	FICE ST	TORAGE		7 PUBLIC USE	uprapajaja in travers de la compansión d		********	6 TOTAL BLD	G SPACE-CORPS	I/n (Sq Fi)				
GOVEF	RNMENT O	JARTER	ليبيا	HER (Specify)		·	J				3	G SPACE-OTHER					
7. ARE THE	RE ANY E	VCROAC	HMENTS OR	OTHER UNAUT	HORIZEC			<u> </u>		90000000	1	3 SPACE EFFECTIV	ELY USED?				
YES (#	YES , Explo	ain in Na	arrative Text o	f Report)) NO				□ N/A YES [NO (If NO Exp.	lain in Report)				
9. ELEVATION	POOL I		ACRES	10. ACREAGE	ACQUI		D DATA DISPOSED	CURRENT		DAT		OJECT DATA					
MINIMUM	ABOV		BELOW	FEE	ACCO		USPOSED	CONNENT			E PLACED A PERATION A BAL MILEAGE OF B	ugust 1960 OUNDARY)				
456 WINTER		651	13		6	63.	2 -	663.2				E 10.0 EASEMENO.1 Est					
460		624	40	EASEMENT		1.	<u> </u>	1.2		F		EASEMENT () &					
SUMMER				RIVERSED		· •			1	UNU	ISED OR EXCESS	BUILDINGS	S , Explain eport)				
460 FLOOD	-	624	40	OTHER	 		 	·	1		ESS LANDS						
484		398	266	TER AREAS	113	5000,000,000		1 TTIL 17 A 1		<u></u>	YES XX	AND	S , Explain eport)				
12. ALLC		OPE	RATING	ACREAGE		<u></u>	PTIMALLY USED	UNDER		7.7	NOT USED	OVER USED	NOT PUT TO OPTIMUM USE				
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OTHER ARI	EAS		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
14. PLAI	NS		DATE PROVED	DATE REVISED	,	***************************************	PLANS	DATE APPROV)	DATE REVISED	15 VISITAT	ION DATA				
MASTER PL	_AN				G	ENER	AL PLAN					CURRENT YEAR	200,000				
√√ √	VAL MGT				А	NNUA	L MGT PLAN	N/A				PREVIOUS YEAR	69,100				
,ATIOI PLAN (II)	NAL MGT				o	KHD	lic Use Plan	Sep 7	 7 1			PREVIOUS YEAR	40,400				
INSPECTOR JHS	EPH J	, PA	TTT			RI	CHARD T	Chief of R.E.) BOGAC	 27	YF		TO Evert	DATE APPROVED				
ENICEC	De Pl		1 am		(0000000000000000000000000000000000000	J ()			л (. 100000	-	Final Company Company	-	000000000000000000000000000000000000000				

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JRANT TYP	PE	NUMBER			RESUME' OF PROJECT ACREAGE C			OUTGRANTS NUMBER				ACREAGE		
LTURE		1			5.0		PUBLIC PARK &							
COMMERCIAL RECREATION							RECREATION RECREATION QUASI-PUBLIC			*****				
FISH & WILDLIF	E				**************************************		 	r-of-way	3			3.18		
GRAZING		····			***************************************		SHORELINE USE PERMITS					***************************************		
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PRIVATE RECREATION							ОТНЕГ	?						
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HANCOCK BROOK LAKE, CT

Report on Utilization of Civil Works Lands and Facilities Narrative, 29 June 1989

**Escat 1990

A. Possible leasing of acreage for athletic playing fields to local and/or state agencies in future.

Project manager should actively solicit and direct any inquiries to CENED-RE on possible interested parties.

DISTRIBUTION:
P&C Div (Orig)
Oper Dir
BM/NRB
PM/Hancock Brook Lake
R.E. Dir
Conv Div

REPORT	MPLIANCE INSPECTION -	OUTGRANTS Hancoc Plymou		New	Eng	land	Di	vision 2	<u> </u>	1989
TYPE OF INSTRUM	ENT CONTRACT NUMBER	GRANTEE	PURPOSE				CORRECTIVE ACTION RECOMMENDED "			
						FROM		10	YES	.ио
Easement	DACW33-2-68-52	Hartford Elec Light Co.	Power & Comm. Facilities R/W (0.98 A), to c & maint Elec & facilities. Pa por trs 106, 1 B: por Tr 127, C: por Tr 127,	constr Comm crcel A 20, 12 129	, 9.	Feb	68	Indefinite		Х
Easement	DACW33-2-71-39	Southern New Eng Telephone	R/W for teleph (2.2 acres)	one	14	Apr	71	Indefinite	and a second	X
Lease	DACW33-1-79-90	Ferry L. Ward, Jr.	Agricultural-g purposes; port Tr 127 (5.0A) Ltr of Beautif	ion &		Apr	79	9 Apr 94	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Х
Easement	DACW33-2-72-20	Penn Central RR	Railroad line 6.85 Ac		11	Feb	71	Indefinite		X

INSTALLATION

DUECT AND LOCATION

ne outgrants listed above have been visually inspected and noted particularly as to maintenance, repair, condition of property, utilization, additions or alterations, id for any unauthorized use, transfer or assignment of interest. The grantees are complying with the terms of the respective instruments in all cases which show corrective action recommended (cases shown as recommending corrective action, indicate noncompliance in some respects, and a separate report on ENG Form 3131 atlanted.

JA: APPONTE Annature of Chief. RE Division)	SIGNATURE OF INSPECTOR	INSPECTED WITH (II Applicable)	
RICHIAD T. BOGATIAN Chief, Real Estate Div	JOSEPH J. PATTI Jato	NAME LES BUTLER TITLE ALLEN HOFFMAN PROJECT MANAGER	TELEPHONE NO 203-2554
\$ FØRM 3560, NEV 87	EDITION OF 1 MAY 82 IS OBSOLETE	SHEET 1 , OF h SHEETS	(Propionent CERF MC)

Project Mgr

ENVIRONMENTAL ASSESSMENT OF THE OPERATION AND MAINTENANCE OF

HANCOCK BROOK LAKE

HANCOCK BROOK

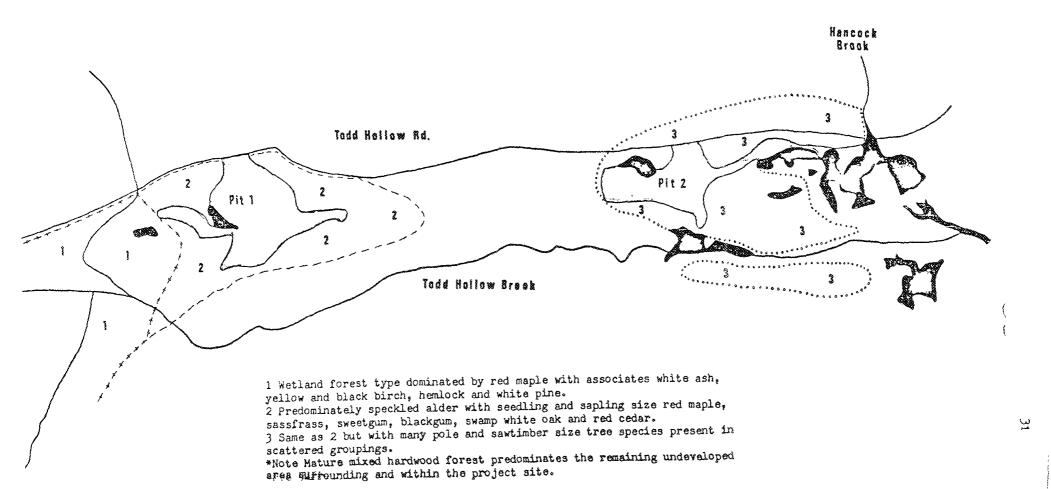
PLYMOUTH, CONNECTICUT

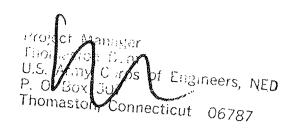
Prepared by



DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION, CORPS OF ENGINEERS
WALTHAM, MASS.

JUNE 1974





PROJECT MANAGER
HOP BROOK LAKE
U. S. ARMY CORPS OF ENGINEERS, NED
ROUTE 63
MIDDLEBURY, CONNECTICUT 06762

HANCOCK BROOK LAKE
PLYMOUTH, CONNECTICUT

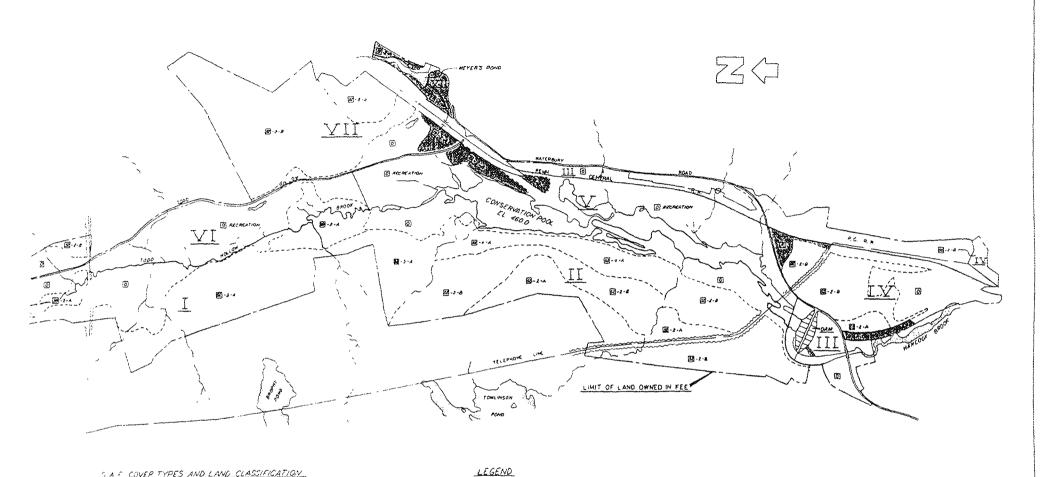
FOREST MANAGEMENT PLAN
PUBLIC USE PLAN APPENDIX B

AND

FISH AND WILDLIFE MANAGEMENT PLAN
PUBLIC USE PLAN APPENDIX D

Department of the Army
New England Division, Corps of Engineers
Operations Division
Waltham, Massachusetts

June 1981



SAF COVER TYPES AND LAND CLASSIFICATION

B CHAY BUREN - NO MAPLE

B MACH ASH - AMERICAN ELM - PED MAPLE

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OPEN TO BRUSHY HACKS

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--- COMMUNITARINE BOUNDARY

BASAL AREA BY COMPARTMENT

FOREST COMPARTMENTS AND COVER TYPES OF

HANCOCK BROOK LAKE 500 0 500 1000 1500

SECTION 7. ENDANGERED SPECIES

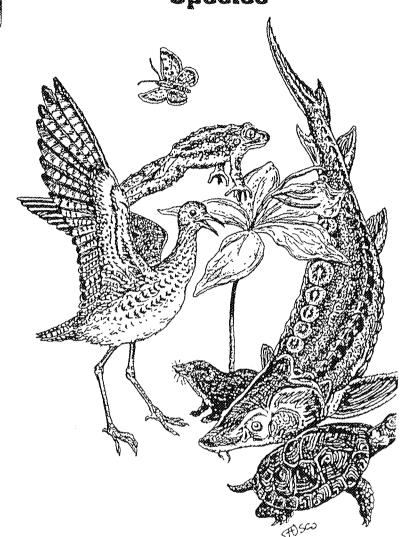
No Federally recognized endangered mammalian, reptilian, amphibian, fish or avian species is known to presently inhabit the Hancock Brook Lake area.

Sightings of Connecticut State Endangered Osprey, (Pandion haliaetus), are made occasionally in the reservoir, but these appear to be transient. No sightings of breeding pairs have been recorded in the immediate area. The Great Blue Heron, (Ardea herodias), designated a Connecticut State rare bird, is a frequent visitor in the warmer months, but no evidence of breeding for this bird has been found.

Measures will be taken to create public awareness of endangered species through the posting of informative material on the animal or other interpretive activities following the sighting. Sightings of endangered species will be reported to Connecticut State Region 14 Wildlife Biologist. Ranger personnel from the Naugatuck River Basin will continue the midwinter Bald Eagle survey sponsored by the National Wildlife Federation which was initiated in January 1979.

Ö

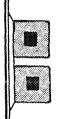
Connecticut's Endangered, Threatened and
Special Concern
Species



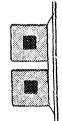
State of Connecticut Department of Environmental Protection 1992

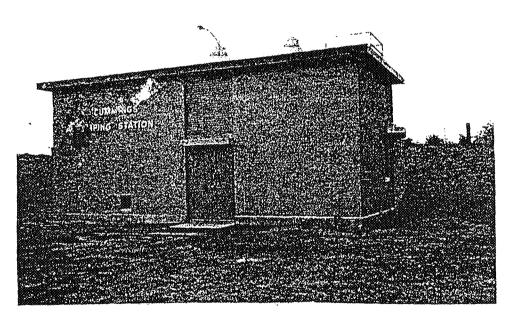
Naugatuck River Area Office U.S. Army Corps of Engineers, NS STAMFOR Diddlebury, Connecticut 06762 HURRICANE PROTECTION BARRIER

STAMFORD, CONNECTICUT



OPERATION AND MAINTENANCE MANUAL



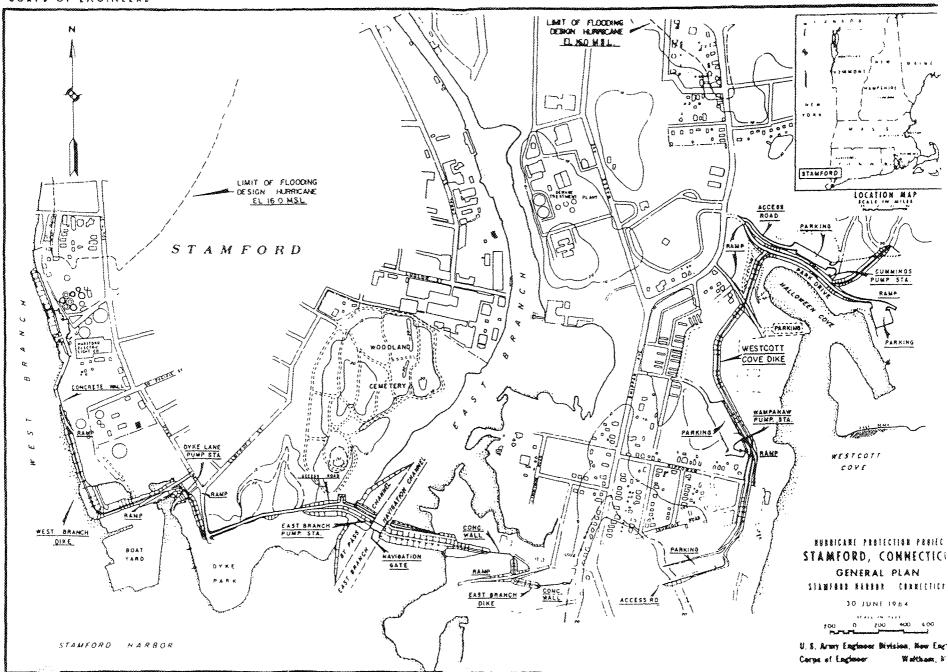




DEPARTMENT OF THE ARMY NEW ENGLAND DIVISION, CORPS OF ENGINEERS WALTHAM, MASS.

APRIL 1969

37





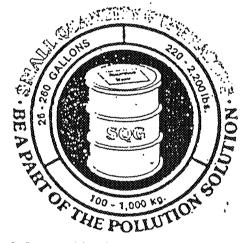
STALE OF CONNECTICUL DEPARTMENT OF ENVIRONMENTAL PROTECTION



DO YOU GENERATE HAZARDOUS WASTE?

MANY SMALL BUSINESSES DO.

This booklet will help Small Quantity Generators understand and comply with new and existing requirements for managing hazardous waste.



Prepared by: The State of Connecticut

Department of Environmental Protection (DEP)

HAZARDOUS WASTE MANAGEMENT SECTION

165 Capital Avenue Hartford, CT 06106

Telephone Numbers:

Enforcement & General Information: 566-8843 Permitting & General Information: 566-4869

SEPTEMBER 1985

HOW MUCH WASTE MUST MY BUSINESS GENERATE TO BE REGULATED UNDER THE NEW FEDERAL/STATE REQUIREMENTS?

The State of Connecticut considers you a <u>Small Quantity Generator</u> (SQG) if you always generate less than 1,000 kilograms of hazardous waste in a calendar month. (1,000 kilograms = 2,200 lbs, or approximately 3 1/2 to 5 fifty-five gallon drums, depending on the weight of the contents).

If you are an SQG who produces BETWEEN

100 kg.(220 lbs.) (----> 1,000 kg. (2,200 lbs.)

of hazardous waste in a month, you are now subject to increased requirements for handling hazardous waste.

You should be aware that the State of Connecticut has additional and more restrictive requirements than EPA. These state requirements apply to all plants or facilities located in Connecticut. These requirements are described below.

If you NEVER produce more than 100 kg (220 lbs., or approximately 1/2 of a 55 gallon drum), then the new FEDERAL requirements described in this brochure do not apply to you. However, you are still subject to some limited requirements. (Briefly, you must store the waste properly so it does not constitute a potential threat of pollution, and you must send the waste to a permitted facility for treatment, storage or disposal. Contact the State of Connecticut DEP for a copy of the "Small Quantity Generator Guidelines" for more information on these requirements).

WHAT MUST I DO IF I AM REGULATED UNDER THE NEW FEDERAL OR STATE REQUIREMENTS?

If you have determined that you do generate hazardous wastes, you must:

- properly handle your wastes on your premises, following state and federal requirements
- periodically ship your wastes off your premises for treatment; storage or disposal, following any applicable state and federal requirements.

HOW DO I SHIP HAZARDOUS WASTE OFF MY PREMISES?

Under current law, you can:

- Contact a company in the business of accepting other firms' hazardous waste for treatment, storage or disposal. This company MUST BE PERMITTED by the State or EPA to manage hazardous waste. Be sure the facility knows the type of hazardous wastes you have and is authorized to take them, or the wastes could be returned to you.

OPERATION AND MAINTENANCE MANUAL

for

STAMFORD HURRICANE BARRIER STAMFORD, CONNECTICUT

SECTION I - INTRODUCTION

- 1-01. <u>AUTHORIZATION</u>. The hurricane flood protection for the City of Stamford, Connecticut, was authorized by the Flood Control Act, dated 14 July 1960, Public Law 86-645, 86th Congress.
- 1-02. LOCATION. The project is located in the City of Stamford, Connecticut. The protection works extend along the east bank of the West Branch from the mouth of the Rippowam River, across East Branch, and along Westcott Cove to high ground to the east.
- 1-03. DATE OF CONSTRUCTION. The project was constructed under a continuing contract awarded 5 April 1965 and was substantially completed by October 1968.
- 1-04. DESCRIPTION. The protection works consist of a dike 4,500 feet long on the east bank of the West Branch, Stamford Harbor, from the mouth of the Rippowam River to Dyke Park, a 2,840 ft. long dike with a 90 ft. gated navigation opening across the East Branch, and a dike 3,950 ft. long in the Westcott Cove area. The top elevation is 17.0 feet, mean sea level, in the East and West Branches and 18.0 feet, mean sea level, in the Westcott Cove area. Four pumping stations are provided. Intake and discharge structures are provided for the cooling water system for the Hartford Electric Light Company plant. Seven vehicular ramps cross the dikes.
- 1-05. PROTECTION PROVIDED. The hurricane protection project provides protection to approximately 600 acres of property below Elevation 14.8, mean sea level (design stillwater level). In this area are located some of the principal manufacturing plants of the City, including the generating station of the Hartford Electric Light Company, as well as a portion of the main commercial district and the residential sections.
- 1-06. MAP. See Plate No. 1 of Appendix G for General Plan of the Project.

ENVIRONMENTAL ASSESSMENT OF THE OPERATION AND MAINTENANCE OF

STAMFORD HURRICANE BARRIER

STAMFORD, CONNECTICUT

Prepared by



DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION, CORPS OF ENGINEERS
WALTHAM, MASS.

JUNE 1974

SECTION 15000

FUEL OIL STORAGE TANKS AND APPURTENANCES

PART 1 - GENERAL

1. SUMMARY:

General: The work involved herein requires the replacement of two fuel oil tanks at the Stamford Hurricane Barrier East Branch Pumping Station in Stamford, CT. The 500 gallon aboveground storage tank is located at the West Abutment, and the 500 gallon underground storage tank is located across the channel at the East Abutment.

- 1.1 West Abutment: Replace existing aboveground fuel oil storage tank and supply system to the emergency generator and warm air furnace. New installation shall be complete with 500 gallon aboveground vaulted fuel storage tank, tank level gage, all fuel supply and return piping, vent line, fill line, and associated appurtenances.
- 1.2 <u>East Abutment</u>: Remove existing underground fuel oil storage tank and supply system to the oil-fired furnace. New installation shall be complete with 500 gallon aboveground vaulted fuel storage tank, tank level gage, fuel supply and return piping, vent line, fill line, associated appurtenances, backfilling, and reinforced concrete pad.
- 1.3 <u>Demolition</u>: Remove and dispose of a 500 gallon aboveground fuel oil storage tank and associated piping, waste oil, and appurtenances at the West Abutment. Remove and dispose of a 500 gallon underground fuel oil storage tank and associated piping, waste oil, and appurtenances at the East Abutment.

2. REFERENCES:

The publications listed below form a part of this specification to the extent referenced. The most recent edition of the referenced publication shall be used. The publications are referred to in the text by basic designation only.

2.1 Federal Specification (Fed. Spec.):

TT-P-37D & Am-4 Paint, Alkyd Resin, Exterior Trim, Deep Colors

15000-1

FUEL OIL STORAGE TANKS
Replace Fuel Tanks
Stamford Hurricane Barrier

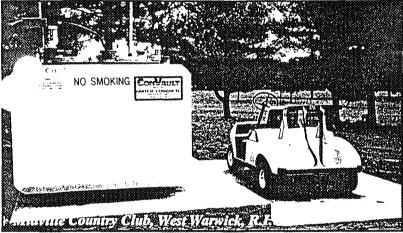
ConVault: PRACTICAL F FOR A SENSITIVE ENVIR

STREET WASHING THE STREET AND STREET AND STREET

THE ABOVEGROUND SOLUTION TO THE UNDERGROUND PROBLEM

Nationwide interest in the preservation of our environment has prompted all levels of government to issue strict guidelines for the installation, operation and removal of underground storage tanks (UST's) As a result, owners may be faced with expensive upgrades, testing, monitoring equipment and pollution liability insurance to comply with these regulations. In the event of a leak, the actual costs for soil and groundwater clean-up can be catastrophic

ConVault's innovative vaulted aboveground storage tanks (AST's) are the proven solution for these problems. The ConVault patented system is designed for safety and value while complying with environmental and fire code regulations



MEETS GOVERNMENT, ENVIRONMENTAL AND FIRE SAFETY REGULATIONS

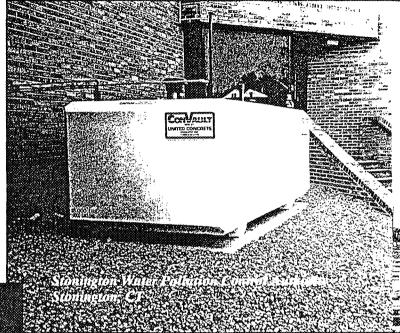
ConVault AST's meet applicable safety requirements for secondary containment, leak monitoring, overspill containment and overfill protection

ConVault AST's have already been approved by fire officials in most jurisdictions. Over 8000 ConVault AST Systems have been installed nationwide within the last eight years, and are currently in use in all regions of the country

Each *ConVault AST* is pressure-tested and meets NFPA 30 and 30A fire safety standards, and is fitted for or ding per NFPA 78

**inVault* AST's have been certified by the California Air Surces Board for Balanced Phase 2 Vapor Recovery

Primary steel tanks (including overfill containers) meet UL Standard 142 and bear UL labels. The special enclosure has been successfully exposed to a 2-hour liquid pool fire test by Underwriters' Laboratories of Canada.

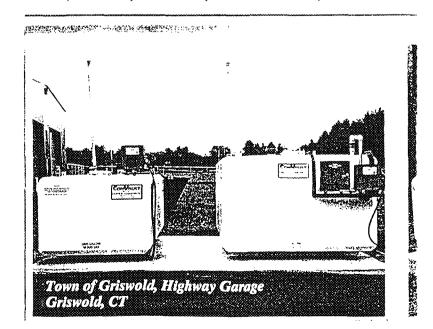


DESIGNED FOR VALUE

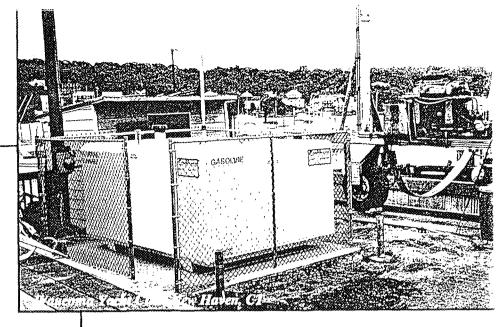
■ The ConVault AST system will provide savings for years to come. More stringent regulations are consistently on the horizon, however, with a ConVault AST the need for updating is greatly reduced thus providing you with a solid investment as well as peace of mind

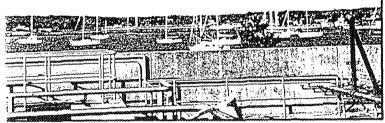
Realizing the diversified needs of our industry **ConVault** has responded by expanding our product line to include tank sizes ranging from 250 gallons to 12,000 gallons. Now you can have quality and variety by choosing a **ConVault** AST that is made to fit your needs

** Your peace of mind is enhanced with a standard 20 or optional 30 year warranty **ConVault** AST systems are self



RODUCTS DNMENT





contained and portable and allow for tank relocation or as your business requirements change!

ConVault AST's are shop-fabricated under strict quality control standards. The fuel storage and dispensing system is shipped as a finished unit eliminating the need for site work. In most cases, additional expenses are limited to freight, the cost of a concrete pad and electrical service if desired

Attractive and flexible lease programs

ENGINEERED FOR SAFETY

- ConVault AST's are engineered for tightness integrity utilizing patented manufacturing procedures. The result is a seamless six-inch concrete vault which gives therma protection, minimizing temperature changes for flammable liquids stored in excessively hot or cold environments. The system contains no cold joints or heat transfer points or the bottom or sides. The monolithic shell also provides ballistic and vehicle impact protection
- and various test results can be obtained by writing ConVault. Always consult local fire and building codes before installing a ConVault AST since environmental and fire safety regulations can vary between jurisdictions



MEMORANDIM FOR: Ch. Project Operations and Readiness Div.

SUBJECT: Dredging of Sediment Deposits in Navigation Gate

Channel- Stamford Hurricane Barrier

- 1. Ref. contract No. DACW33-85-C-0006, "Maintenance Dredging, Stamford Hurricane Barrier Navigation Gate".
- 2. Funds in the amount of \$20,000 have been scheduled in SHB's FY94 program to accomplish removal of sediment deposits in front of the navigation gate. This is based on a recommendation at the 1991 bi-annual gate maintenance inspection.
- As requested by PORD, Navigation Div. completed a sounding survey this past summer to determine sediment profile and quantity. Request the results be obtained and reviewed so a determination can be made soon on proceeding with any required dredging in FY94. Also, pls. determine whether any proposed work can be combined with any upcoming dredging contract Navigation Div. may have in the Stamford area.
- 4. Ref. contract to Aqua-Dredge, Inc., Armonk, N.Y., was completed in FY85 to remove sediment deposits in front of the gate by hydraulic dredge and pumped to a nearby diked disposal site at the project. A modification as issued for a diver team to remove accumulated debris not identified in the original sampling, e.g. tires, rock, cable, timbers, etc. This contract was a followup to contract No. 83-C-0081 and inspections dealing with realignment of the navigation gate system.

Request a determination on proceeding with a dredging contract. Technical assistance on specifications, disposal, environmental sampling, EA/FONSI, permits, etc. is also requested. POC is the project manager, Hop Brook Lake Unit.

Encl.

MEESE E. MORGAN Basin manager NRB

CF:

Ch, Navigation Div.

Project Mgr., HBE/SHB/

NRB file (SHB-210)

Vill Kanach inled 115 de le will and word in De sulpers & o ligaron.

Contract DACW-

ENVIRONMENTAL ASSESSMENT
AND
FINDING OF NO SIGNIFICANT IMPACT

PROPOSED MAINTENANCE DREDGING STAMFORD HURRICANE BARRIER STAMFORD, CONNECTICUT

ERNEST WATERMAN GEOLOGIST

OCTOBER, 1984

NEW ENGLAND DIVISION
U.S. ARMY CORPS OF ENGINEERS
424 TRAPELO ROAD
WALTHAM, MASSACHUSETTS 02254-9149

F03/27.1 ELECTRICAL/MECHANICAL SYSTEM REHAB.

Replacement of existing gear driven gate raising mechanism with hydraulic unit. Included in this item is the rigging and demolition of existing system, fabrication and installation of new of the barrier electrical and replacement mechanical/electrical repairs/studies continuation of recommended in periodic inspection report #3 and A/E study of FY 91 and FY 92 evaluation and recommendations. Rescheduled from FY 92 with revised scope.

Contract: \$ 750,000 E&D: \$ 187,000 S&A: \$21,000

F03/27.1 DREDGE NAVIGATION CHANNEL

Provide period maintenance dredging of navigation channel on ocean side of gate to keep area clear around pedestals and ensure proper positioning of gate. Excessive buildings of sediments was reported by contract divers in biannual inspection Oct. 1991.

Contract: \$ 10,000 E&D: \$ 2,000 KN94 FUS

F03/27.1 REPLACE RAILING ON NAVIGATION GATE

Remove original (26 year old) existing deteriorated railing on Navigation Gate and replace with new railing constructed from I beams. Eurrent railing is severely deteriorated and no longer offers sufficient protection of personnel working on gate. Plan on combining work with bi-annual gate maintenance to eliminate excessive closure of gate. (Cut FY 93)

Contract: \$ 8,000

F03/27.1 REPLACE GATE OPERATOR ENCLOSURE

Replace original (26 year old) badly rusted existing steel enclosure for 8' x 8' bypass gate with a comparable enclosure. Existing system no longer adequately protects operator from weather and has rusted in the salt water environment. New enclosure should be fabricated with corrosion resistant materials to prolong useful life. Specs. to be prepared in the field.

Contract: \$ 4,000